(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 1 415 986 A1

(12) **EUROPEAN PATENT APPLICATION**
published in accordance with Art. 158(3) EPC

(43) Date of publication:
06.05.2004 Bulletin 2004/19

(21) Application number: **02755790.9**

(22) Date of filing: **02.08.2002**

(51) Int Cl.[7]: **C07D 209/96**, C07D 307/94, C07D 401/12, C07D 403/14, C07D 405/12, C07D 471/10, A61K 31/454, A61K 31/4545, A61K 31/4709, A61K 31/4747, A61K 31/506, A61P 1/00, A61P 3/04, A61P 3/06, A61P 3/10, A61P 5/00, A61P 9/00, A61P 9/02

(86) International application number:
PCT/JP2002/007922

(87) International publication number:
WO 2003/014083 (20.02.2003 Gazette 2003/08)

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **07.08.2001 JP 2001239567**

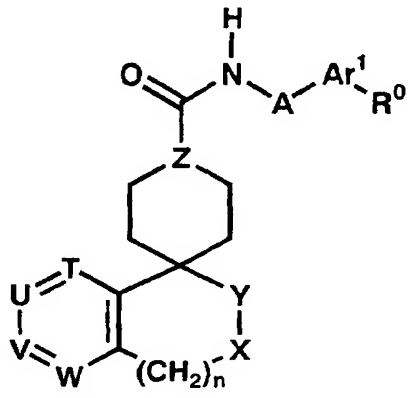
(71) Applicant: **BANYU PHARMACEUTICAL CO., LTD.**
Chuo-ku, Tokyo 103-8416 (JP)

(72) Inventors:
- **FUKAMI, Takehiro,**
  c/o Banyu Pharmaceutical Co.Ltd.
  Tsukuba-shi, Ibaraki 300-2611 (JP)
- **NONOSHITA, Katsumasa,**
  c/o Bany Pharamceutical
  Tsukuba-shi, Ibaraki 300-2611 (JP)
- **SAGARA, Takeshi,**
  c/o BANYU PHARMACEUTICAL CO., LTD
  Tsukuba-shi, Ibaraki 300-2611 (JP)
- **KISHINO, Hiroyuki,**
  c/o BANYU PHARMACEUTICAL
  Tsukuba-shi, Ibaraki 300-2611 (JP)

(74) Representative: **Teipel, Stephan, Dr. et al**
Lederer & Keller
Patentanwälte
Prinzregentenstrasse 16
80538 München (DE)

(54) SPIRO COMPOUNDS

(57) Compounds of the formula (I):



(I)

EP 1 415 986 A1

(wherein

A is an optionally substituted straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally intervened by oxygen or nitrogen atom;
Ar^1 is aryl or heteroaryl, any of which is optionally substituted;
n is 0 or 1;
R^0 is hydrogen, or lower alkylene attached to an arbitrary, bondable position of A;
T, U, V and W are independently nitrogen atom or optionally substituted methine, and at least two of T, U, V and W are said methine group;
X is $-N(SO_2R^1)-$, $-N(COR^2)-$ or -CO-;
Y is $-C(R^3)(R^4)-$, -O- or $-N(R^5)-$;
Z is methine or nitrogen atom) exhibit NPY antagonistic activities and are useful as agents for the treatment of various diseases related to NPY, for example, cardiovascular disorders such as hypertension, nephropathy, heart disease, vasospasm, arteriosclerosis, etc., central nervous system disorders such as bulimia, depression, anxiety, seizure, epilepsy, dementia, pain, alcoholism, drug withdrawal, circadian rhythm disorders, schizophrenia, etc., metabolic diseases such as obesity, diabetes, hormone abnormality, hypercholesterolemia, hyperlipidemia, etc., sexual and reproductive dysfunctions, and gastro-intestinal motility disorder.

Description

Technical Field

[0001] The present invention is useful in medical fields. In more detail, spiro compounds of the present invention have an effect as neuropeptide Y receptor antagonists and are useful as agents for the treatment of various kinds of cardiovascular disorders, central nervous system disorders, metabolic diseases, and the like.

Background Art

[0002] NeuropeptideY (hereinafter referred to as NPY), apeptide consisting of 36 amino acids, was first isolated from porcine brain by Tatemoto et al in 1982 (NATURE, vol. 296, p. 659(1982)). NPY is widely distributed in central nervous system and peripheral nervous system, and plays various roles as one of the most abundant peptides in the nervous system. That is, NPY acts as an orexigenic substance in the central nervous system and markedly promotes fat accumulation via the mediation of secretion of various hormones or the action of the nervous system. It is known that continuous intracerebroventricular administration of NPY induces obesity and insulin resistance due to these actions (INTERNATIONAL JOURNAL OF OBESITY, vol. 19, p.517(1995); Endocrinology, vol.133, p.1753(1993)). It is also known that NPY has central actions such as depression, anxiety, schizophrenia, pain, dementia, circadian rhythm control and the like (DRUGS, vol.52, p.371(1996); THE JOURNAL OF NEUROSCIENCE, vol.18, p.3014(1998)). Furthermore, in the periphery, NPY coexists with norepinephrine in sympathetic-nerve terminals and is related to the tonicity of the sympathetic nervous system. It is known that peripheral administration of NPY causes vasoconstriction and enhances the activities of other vasoconstrictive substances such as norepinephrine (BRITISH JOURNAL OF PHARMACOLOGY, vol.95, p.419(1988)). It is also reported that NPY could participate in the development of cardiac hypertrophy as a result of the sympathetic stimulation (PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.97, p.1595(2000)).

[0003] On the other hand, it is reported that NPY is also involved in the secretory function of sexual hormones and growth hormone, sexual behavior and reproductive function, gastro-intestinal motility, bronchoconstriction, inflammation and alcohol preference (LIFE SCIENCE, vol.55, p.551(1994); THE JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, vol.101, p.S345(1998); NATURE, vol.396, p.366(1998)).

[0004] NPY has a variety of pharmacological effects resulting from NPY binding to some NPY receptors to which peptide YY and pancreatic polypeptide, which are the analogs of NPY, also bind. It is known that these pharmacological effects of NPY are mediated by the action of at least five receptors with or without synergistic interactions (TRENDS IN NEUROSCIENCES, vol.20, p.294(1997)).

[0005] It is reported that the central effects mediated by NPY Y1 receptor include remarkable orexigenic effect (ENDOCRINOLOGY, vol.137, p.3177(1996); ENDOCRINOLOGY, vol.141, p.1011(2000)). Further, NPY Y1 receptor is reported to be involved in anxiety and pain (NATURE, vol.259, p.528(1993); BRAIN RESEARCH, vol.859, p.361(2000). In addition, the pressor effect mediated by the strong vasoconstrictor action in the periphery is also reported (FEBS LETTERS, vol.362, p.192(1995); NATURE MEDICINE, vol.4, p.722(1998)).

[0006] It is known that the effects mediated by NPY Y2 receptor include an inhibitory effect on the release of various neurotransmitters in the sympathetic nerve endings (BRITISH JOURNAL OF PHARMACOLOGY, vol.102, p.41(1991); SYNAPSE, vol.2, p.299(1988)). In periphery, NPY Y2 causes constriction of blood vessel or vas deferens directly or via the control of release of various neurotransmitters (THE JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, vol.261, p.863(1992); BRITISH JOURNAL OF PHARMACOLOGY, vol.100, p.190(1990)). Inhibition of lipolysis in adipose tissues is also known (ENDOCRINOLOGY, vol.131, p.1970(1992)). Further, inhibition of ion secretion in the gastro-intestinal tract is reported (BRITISH JOURNAL OF PHARMACOLOGY, vol.101, p.247(1990)). On the other hand, the effects on the central nervous system functions such as memory, anxiety and the like are also known (BRAIN RESEARCH, vol.503, p.73(1989); PEPTIDES, vol.19, p.359(1998)).

[0007] It is reported that NPY Y3 receptor exists mainly in brainstem and heart, and is related to the regulation of blood pressure and heart rate (THE JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, vol. 258, p.633(1991); PEPTIDES, vol.11, p.545(1990)). It is also known that NPY Y3 is involved in the control of catecholamine secretion in adrenal gland (THE JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, vol.244, p.468(1988); LIFE SCIENCE, vol.50, p.PL7(1992)).

[0008] NPY Y4 receptor has high affinity for pancreatic polypeptide in particular. As for the pharmacological effects of NPY Y4, inhibition of pancreatic exocrine secretion and gastro-intestinal motility is reported (GASTROENTEROLOGY, vol.85, p.1411(1983)). Further, it is reported that NPY enhances the secretion of sexual hormones in the central nervous system (ENDOCRINOLOGY, vol.140, p.5171(1999)).

[0009] As for the effects mediated by NPY Y5 receptor, fat accumulation effects including orexigenic effect are prominent (NATURE, vol. 382, p.168(1996); AMERICAN JOURNAL OF PHYSIOLOGY, vol.277, p.R1428(1999)). It is also

reported that the NPY Y5 receptor mediates some CNS effects, such as seizure and epilepsy, or pain and morphine withdrawal symptoms, and the control of circadian rhythm (NATURE MEDICINE, vol.3, p.761(1997); PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.96, p.13518(1999); THE JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, vol.284, p.633(1998); THE JOURNAL OF NEUROSCIENCE, vol.21, p.5367(2001). In addition, diuretic effect and hypoglicemic effect in the periphery are reported (BRITISH JOURNAL OF PHARMACOLOGY, vol. 120, p.1335(1998); ENDOCRINOLOGY, vol.139, p.3018 (1998)). NPY is also reported to enhance cardiac hypertrophy as a result of the sympathetic accentuation (PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.97, p.1595 (2000)).

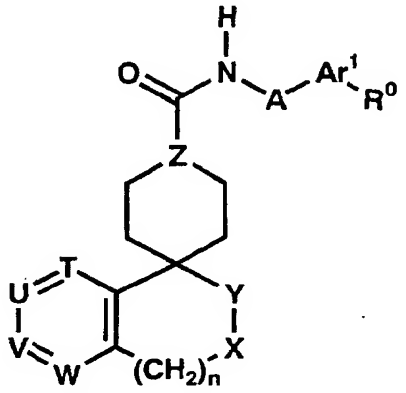
[0010] The effects of NPY are expressed when NPY binds to the NPY receptors in the central or peripheral nervous system. Therefore, the action of NPY can be prevented by blocking its binding to NPY receptors. For this reason, it is expected that substances antagonize NPY binding to NPY receptors may be useful for the prophylaxis or treatment of various diseases related to NPY, for example, cardiovascular disorders such as hypertension, nephropathy, heart disease, vasospasm, etc., central nervous system disorders such as bulimia, depression, anxiety, seizure, epilepsy, dementia, pain, alcoholism, drug withdrawal, circadian rhythm disorders, schizophrenia, etc., metabolic diseases such as obesity, diabetes, hormone abnormality, etc., sexual and reproductive dysfunctions, gastro-intestinal motility disorders, respiratory disorders, inflammatory diseases or glaucoma, and the like. (TRENDS IN PHARMACOLOGICAL SCIENCES, vol.15, p.153(1994); LIFE SCIENCE, vol.55, p.551(1994); DRUGS, vol.52, p.371(1996); THE JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, vol.101, p.S345(1998); NATURE, vol.396, p.366(1998); THE JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, vol.284, p.633(1998); TRENDS IN PHARMACOLOGICAL SCIENCES, vol.20, p.104(1999); PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.97, p.1595(2000); THE JOURNAL OF NEUROSCIENCE, vol. 21, p.5367 (2001); PHARMACOLOGY & THERAPEUTICS, vol.65, p.397(1995).

[0011] It was recently found that, as a result of the study by the present inventors, certain NPY receptor antagonists are useful for the prophylaxis or treatment of hypercholesterolemia, hyperlipidemia and arteriosclerosis (International application publication WO99/27965).

Disclosure of Invention

[0012] The object of the present invention is to provide novel medicines which have NPY antagonistic actions.

[0013] The present inventors have discovered that compounds of the formula (I):



(I)

(wherein

A is a straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of oxo, amino, lower alkylamino, di-lower alkylamino, hydroxy, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl and -R^a, and is optionally intervened by oxygen or nitrogen atom;

Ar^1 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cycle-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl, lower alkoxycarbonyl and -Q-Ar^2;

Ar^2 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting

of halogen, cyano, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, hydroxy, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkanoyl and aryl;
n is 0 or 1;
Q is a single bond or carbonyl;
R^a is lower alkyl which is optionally substituted by a substituent selected from the group consisting of amino, lower alkylamino, di-lower alkylamino and hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine;
R^0 is hydrogen, or lower alkylene attached to an arbitrary, bondable position of A;
R^1, R^2 and R^5 are independently hydrogen, lower alkyl, aralkyl or aryl;
R^3 and R^4 are independently hydrogen, hydroxy, lower alkyl, aralkyl or aryl;
T, U, V and W are independently methine or nitrogen atom, said methine being optionally substituted by a substituent selected from the group consisting of halogen, lower alkyl, hydroxy and lower alkoxy, and at least two of T, U, V and W are said methine group;
X is $-N(SO_2R^1)-$, $-N(COR^2)-$ or $-CO-$;
Y is $-C(R^3)(R^4)-$, $-O-$ or $-N(R^5)-$;
Z is methine or nitrogen atom)

exhibit NPY antagonistic activities and are useful as agents for treatment of various kinds of diseases related to NPY, thereby completed the present invention.

[0014] The compounds of the present invention (I) are useful as agents for the treatment of various diseases related to NPY, that is, cardiovascular disorders such as hypertension, nephropathy, heart disease, vasospasm, arteriosclerosis, etc., central nervous system disorders such as bulimia, depression, anxiety, seizure, epilepsy, dementia, pain, alcoholism, drug withdrawal, circadian rhythm disorders, schizophrenia, etc., metabolic diseases such as obesity, diabetes, hormone abnormality, hypercholesterolemia, hyperlipidemia, etc., sexual and reproductive dysfunctions, gastro-intestinal disorders such as gastro-intestinal motility disorder, respiratory disorders, inflammatory diseases or glaucoma, and the like.

[0015] The compounds of the present invention (I) are particularly useful as agents for the treatment of bulimia, obesity, diabetes and the like.

[0016] The present invention relates to the compounds of the formula (I), or the salts or esters thereof, and the production methods and the use thereof.

[0017] The means of terms used in the present specification are defined, and more detailed description of this invention is described below.

[0018] "Halogen" refers to fluorine, chlorine, bromine and iodine.

[0019] "Lower alkyl" refers to a straight- or branched-chain alkyl group having 1 to 6 carbon atoms, and its examples are methyl, ethyl, propyl, isopropyl, butyl, isobutyl, sec-butyl, tert-butyl, pentyl, isopentyl, hexyl, isohexyl and the like.

[0020] "Halo-lower alkyl" refers to said lower alkyl substituted with identically or differently one, two or more, preferably one to three said halogen at the arbitrary, substitutable position(s), and its examples are fluoromethyl, difluoromethyl, trifluoromethyl, 2-fluoroethyl, 1,2-difluoroethyl, chloromethyl, 2-chloroethyl, 1,2-dichloroethyl, bromomethyl, iodomethyl and the like.

[0021] "Hydroxy-lower alkyl" refers to said lower alkyl substituted with one, two or more, preferably one or two hydroxy at the arbitrary, substitutable position(s), and its examples are hydroxymethyl, 2-hydroxyethyl, 1-hydroxy-1-methylethyl, 1,2-dihydroxyethyl, 3-hydroxypropyl and the like.

[0022] "Cyclo-lower alkyl" refers to a cycloalkyl group having 3 to 6 carbon atoms, and its examples are cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl and the like.

[0023] "Lower alkenyl" refers to a straight- or branched-chain alkenyl group having 2 to 6 carbon atoms, and its examples are vinyl, 1-propenyl, 2-propenyl, isopropenyl, 3-butenyl, 2-butenyl, 1-butenyl, 1-methyl-2-propenyl, 1-methyl-1-propenyl, 1-ethyl-1-ethenyl, 2-methyl-2-propenyl, 2-methyl-1-propenyl, 3-methyl-2-butenyl, 4-pentenyl and the like.

[0024] "Lower alkoxy" refers to a straight- or branched-chain alkoxy group having 1 to 6 carbon atoms, and its examples are methoxy, ethoxy, propoxy, isopropoxy, butoxy, sec-butoxy, isobutoxy, tert-butoxy, pentyloxy, isopentyloxy, hexyloxy, isohexyloxy, and the like.

[0025] "Halo-lower alkoxy" refers to said lower alkoxy substituted with identically or differently one, two or more, preferably one to three said halogen at the arbitrary, substitutable position(s), and its examples are fluoromethoxy, difluoromethoxy, trifluoromethoxy, 2-fluoroethoxy, 1,2-difluoroethoxy, chloromethoxy, 2-chloroethoxy, 1,2-dichloroethoxy, bromomethoxy, iodomethoxy and the like.

[0026] "Lower alkylthio" refers to a straight- or branched-chain alkylthio group having 1 to 6 carbon atoms, and its examples are methylthio, ethylthio, propylthio, isopropylthio, butylthio, sec-butylthio, isobutylthio, tert-butylthio, pentylthio, isopentylthio, hexylthio, isohexylthio and the like.

[0027] "Lower alkanoyl" refers to an alkanoyl group containing said lower alkyl, that is, an alkanoyl group having 2 to 7 carbon atoms, and its examples are acetyl, propionyl, butyryl, isobutyryl, valeryl, isovaleryl, pivaloyl and the like.

[0028] "Lower alkoxycarbonyl" refers to an alkoxycarbonyl group containing said lower alkoxy, that is, an alkoxycarbonyl group having 2 to 7 carbon atoms, and its examples are methoxycarbonyl, ethoxycarbonyl, propoxycarbonyl, isopropoxycarbonyl, butoxycarbonyl, isobutoxycarbonyl, tert-butoxycarbonyl, pentyloxycarbonyl and the like.

[0029] "Aryl" refers to phenyl, naphthyl and the like.

[0030] "Heteroaryl" refers to 5- or 6-membered monocyclic heteroaromatic group which contains one, two or more, preferably one to three hetero atom(s) identically or differently selected from the group consisting of oxygen, nitrogen and sulfur; or condensed cyclic heteroaromatic group, where said monocyclic heteroaromatic group is condensed with said aryl group or condensed each other with the same or different said monocyclic heteroaromatic group, and its examples are pyrrolyl, furyl, thienyl, imidazolyl, pyrazolyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, triazolyl, tetrazolyl, oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,3,4-thiadiazolyl, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl, 1,2,4-triazinyl, 1,3,5-triazinyl, indolyl, benzofuranyl, benzothienyl, benzoimidazolyl, benzoxazolyl, benzoisoxazolyl, benzothiazolyl, benzoisothiazolyl, indazolyl, purinyl, quinolyl, isoquinolyl, phthalazinyl, naphthylidinyl, quinoxalinyl, quinazolinyl, cinnolinyl, pteridinyl, pyrido[3,2-b]pyridyl and the like.

[0031] "A straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally intervened by oxygen or nitrogen atom" refers to a saturated or unsaturated straight-chain hydrocarbon having 1 to 6 carbon atoms, which may or may not be intervened by one, two or more, preferably one oxygen or nitrogen atom(s), at the arbitrary position (s) capable of being intervened, and examples thereof are methylene, ethylene, trimethylene, tetramethylene, pentamethylene, 1-azatrimethylene, 1-azatetramethylene, 2-azatetramethylene, 2-oxatetramethylene, 2-oxapentamethylene, 3-oxapentamethylene and the like.

[0032] "Lower alkylamino" refers to an amino group mono-substituted with said lower alkyl, and its examples are methylamino, ethylamino, propylamino, isopropylamino, butylamino, sec-butylamino, tert-butylamino and the like.

[0033] "Di-lower alkylamino" refers to an amino group di-substituted with identical or different said lower alkyl, and its examples are dimethylamino, diethylamino, ethylmethylamino, dipropylamino, methylpropylamino, diisopropylamino and the like.

[0034] "Lower alkylene" refers to a straight- or branched-chain alkylene group having 1 to 6 carbon atoms, and its examples are methylene, ethylene, trimethylene, tetramethylene, pentamethylene, hexamethylene and the like.

[0035] "Aralkyl" refers to said lower alkyl substituted with one, two or more, preferably one or two aryl at the arbitrary, substitutable position(s), and its examples are benzyl, 2-phenylethyl, 3-phenylethyl, 1-phenylethyl and the like.

[0036] The salts of the compounds of the formula (I) refer to the pharmaceutically acceptable, common salts, and examples thereof are base addition salt to said carboxyl group when the compound has a carboxyl group, or acid addition salt to an amino or said basic heterocyclyl when the compound has a basic heterocyclyl group, and the like.

[0037] Said base addition salts include salts with alkali metals (e.g. sodium, potassium); salts with alkaline earth metals (e.g. calcium, magnesium); ammonium salts; salts with organic amines (e.g. trimethylamine, triethylamine, dicyclohexylamine, ethanolamine, diethanolamine, triethanolamine, procaine, N,N'-dibenzylethylenediamine) and the like.

[0038] Said acid addition salts include salts with inorganic acids (e.g. hydrochloric acid, sulfuric acid, nitric acid, phosphoric acid, perchloric acid), salts with organic acids (e.g. maleic acid, fumaric acid, tartaric acid, citric acid, ascorbic acid, trifluoroacetic acid), salts with sulfonic acids (e.g. methanesulfonic acid, isethionic acid, benzenesulfonic acid, p-toluenesulfonic acid) and the like.

[0039] The esters of the compounds of the formula (I) refer to, for example, the pharmaceutically acceptable, common esters of said carboxyl group when the compound has a carboxyl group, and examples thereof are esters with lower alkyl (e.g. methyl, ethyl, propyl, isopropyl, butyl, sec-butyl, tert-butyl, pentyl, isopentyl, neopentyl, cyclopropyl, cyclobutyl, cyclopentyl), esters with aralkyl (e.g. benzyl, phenethyl) , esters with lower alkenyl (e.g. allyl, 2-butenyl), esters with lower-alkoxy-lower-alkyl (e.g. methoxymethyl, 2-methoxyethyl, 2-ethoxyethyl), esters with lower-alkanoyloxy-lower-alkyl (e.g. acetoxymethyl, pivaloyloxymethyl, 1-pivaloyloxyethyl), esters with lower-alkoxycarbonyl-lower-alkyl (e.g. methoxycarbonylmethyl, isopropoxycarbonylmethyl), esters with carboxy-lower alkyl (e.g. carboxymethyl), esters with lower-alkoxycarbonyloxy-lower-alkyl (e.g. 1-(ethoxycarbonyloxy)ethyl, 1-(cyclohexyloxycarbonyloxy)ethyl), esters with carbamoyloxy-lower alkyl (e.g. carbamoyloxymethyl), esters with phthalidyl, esters with (5-substituted-2-oxo-1,3-dioxol-4-yl)methyl (e.g. (5-methyl-2-oxo-1,3-dioxol-4-yl)methyl) and the like.

[0040] "An agent for treatment" refers to a medicament which is employed for the treatment and/or prophylaxis of various diseases.

[0041] In order to disclose the aforesaid compounds of the formula (I) of the present invention more specifically, the various symbols used in the formula (I) are explained in more detail by presenting preferred embodiments.

[0042] A refers to a straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of oxo, amino, lower alkylamino, di-lower alkylamino, hydroxy, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl and -R^a, and is optionally intervened by oxygen or nitrogen

atom.

[0043] "A straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of oxo, amino, lower alkylamino, di-lower alkylamino, hydroxy, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl and -R^a, and is optionally intervened by oxygen or nitrogen atom" refers to unsubstituted said straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally intervened by oxygen or nitrogen atom; or said straight-chain hydrocarbon having 1 to 6 carbon atoms, which has substituent(s) at the arbitrary, substitutable position(s), and is optionally intervened by oxygen or nitrogen atom, wherein said substituent may be one, two or more member(s), preferably one member identically or differently selected from the group consisting of oxo, amino, lower alkylamino, di-lower alkylamino, hydroxy, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl and -R^a.

[0044] The preferable examples of lower alkylamino as said substituent include methylamino, ethylamino, propylamino and the like.

[0045] The preferable examples of di-lower alkylamino as said substituent include dimethylamino, diethylamino and the like.

[0046] The preferable examples of lower alkoxy as said substituent include methoxy, ethoxy, propoxy and the like.

[0047] The preferable examples of lower alkoxycarbonyl as said substituent include methoxycarbonyl, ethoxycarbonyl and the like.

[0048] The preferable examples of lower alkylene as said substituent include methylene, ethylene, trimethylene and the like.

[0049] The preferable examples of aryl as said substituent include phenyl, naphthyl and the like.

[0050] The preferable examples of heteroaryl as said substituent include pyridyl, quinolyl, indolyl and the like.

[0051] A group represented by the formula: -R^a as said substituent refers to lower alkyl which is optionally substituted by a substituent selected from the group consisting of amino, lower alkylamino, di-lower alkylamino and hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine.

[0052] "Lower alkyl which is optionally substituted by a substituent selected from the group consisting of amino, lower alkylamino, di-lower alkylamino and hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine" refers to unsubstituted said lower alkyl, or said lower alkyl having substituent(s) at the arbitrary, substitutable position(s),wherein said substituent may be one, two or more, preferably one member(s) identically or differently selected from the group consisting of amino, lower alkylamino, di-lower alkylamino and hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine.

[0053] The preferable examples of lower alkylamino as said substituent include methylamino, ethylamino, propylamino and the like.

[0054] The preferable examples of di-lower alkylamino as said substituent include dimethylamino, diethylamino and the like.

[0055] The preferable examples of cyclo-lower alkyl being optionally substituted by fluorine as said substituent include cyclopentyl, cyclohexyl and the like.

[0056] The preferable examples of aryl being optionally substituted by fluorine as said substituent include phenyl, 4-fluorophenyl, naphthyl and the like.

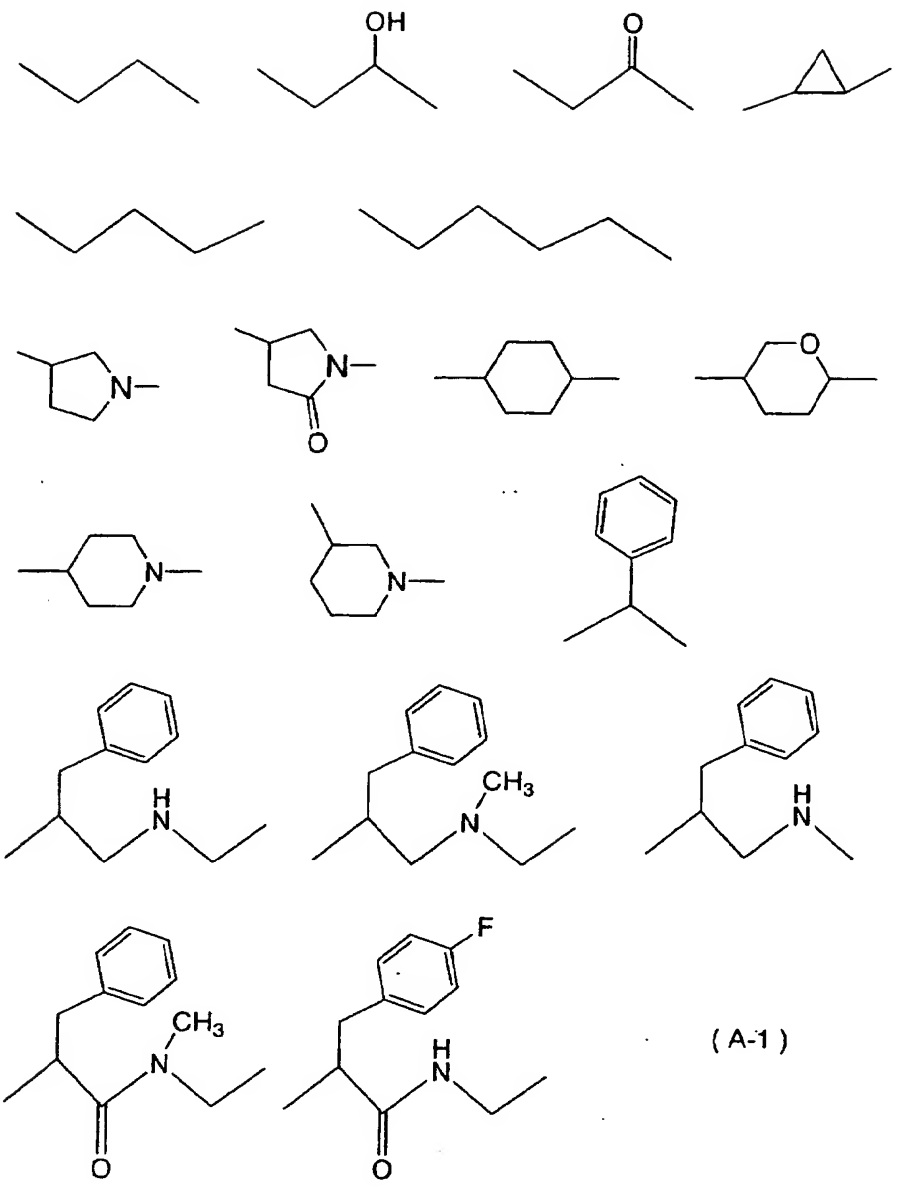
[0057] The preferable examples of heteroaryl being optionally substituted by fluorine as said substituent include pyridyl, quinolyl, indolyl and the like.

[0058] The preferable examples of lower alkyl of "lower alkyl which is optionally substituted" as R^a include methyl, ethyl, propyl and the like.

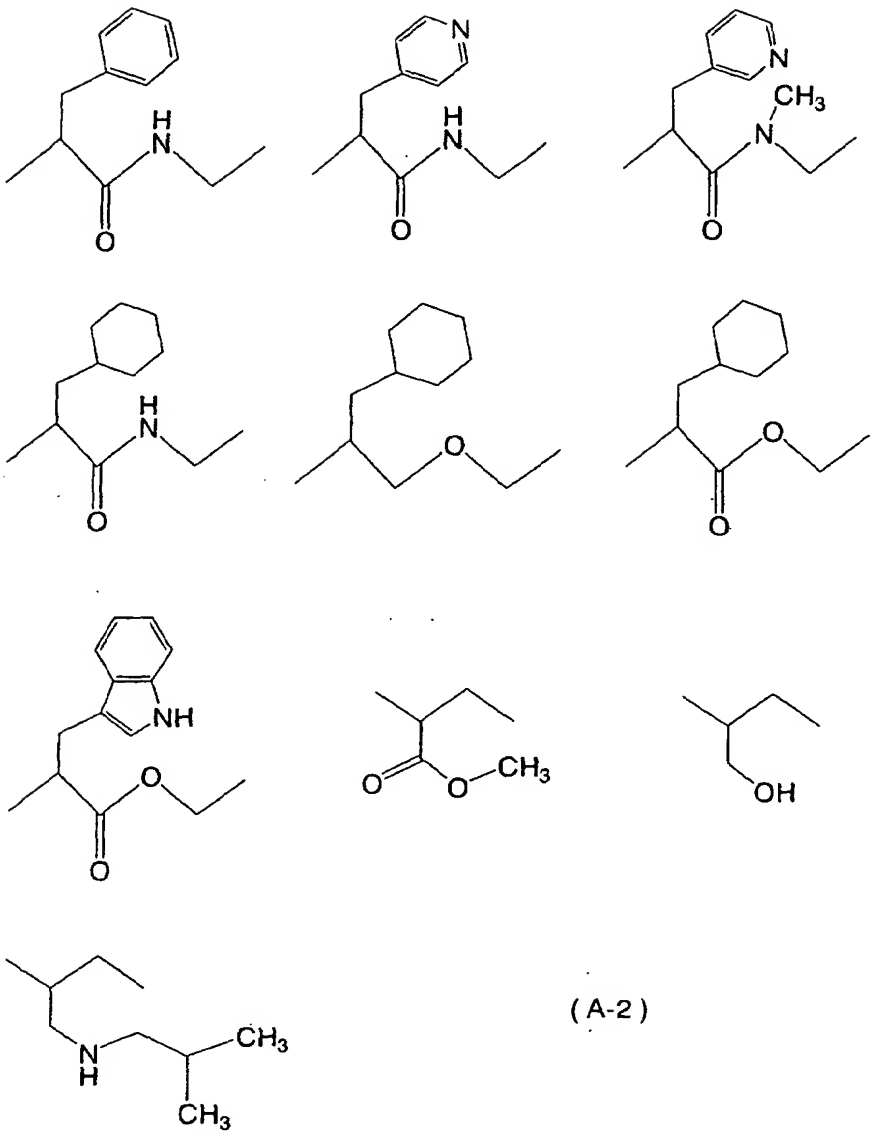
[0059] The preferable examples of R^a include hydroxymethyl, cyclohexylmethyl, benzyl, 4-fluorobenzyl, 3-pyridylmethyl, 4-pyridylmethyl, 3-indolylmethyl and the like.

[0060] The preferable examples of substituent of A include oxo, hydroxy, lower alkoxycarbonyl, lower alkylene, aryl, -R^a and the like.

[0061] To be more specific, A includes, for example, a group of the formula (A-1) and (A-2):



(A-1)



(A-2)

and the like.

[0062] Ar^1 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cycle-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl, lower alkoxycarbonyl and -Q-Ar^2.

[0063] "Aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cyclo-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl, lower alkoxycarbonyl and -Q-Ar^2" refers to unsubstituted said aryl or said heteroaryl, or said aryl or said heteroaryl, the last two groups having substituent (s) at the arbitrary, substitutable position(s) wherein said substituent may be one, two or more, preferably one or two member(s) identically or differently selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cyclo-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl, lower alkoxycarbonyl and -Q-Ar^2.

[0064] The preferable examples of halogen as said substituent include fluorine, chlorine and the like.

[0065] The preferable examples of lower alkyl as said substituent include methyl, ethyl, propyl, isopropyl and the like.

[0066] The preferable examples of halo-lower alkyl as said substituent include difluoromethyl, trifluoromethyl and the like.

[0067] The preferable examples of hydroxy-lower alkyl as said substituent include hydroxymethyl, 2-hydroxyethyl, 1-hydroxy-methylethyl and the like.

[0068] The preferable examples of cyclo-lower alkyl as said substituent include cyclopropyl, cyclobutyl and the like.

[0069] The preferable examples of lower alkenyl as said substituent include vinyl, 1-propenyl, 2-methyl-1-propenyl and the like.

[0070] The preferable examples of lower alkoxy as said substituent include methoxy, ethoxy and the like

[0071] The preferable examples of halo-lower alkoxy as said substituent include fluoromethoxy, difluoromethoxy, trifluoromethoxy and the like.

[0072] The preferable examples of lower alkylamino as said substituent include methylamino, ethylamino, propylamino and the like.

[0073] The preferable examples of di-lower alkylamino as said substituent include dimethylamino, diethylamino and the like.

[0074] The preferable examples of lower alkylthio as said substituent include methylthio, ethylthio and the like.

[0075] The preferable examples of lower alkanoyl as said substituent include acethyl, propionyl and the like.

[0076] The preferable examples of lower alkoxycarbonyl as said substituent include methoxycarbonyl, ethoxycarbonyl and the like.

[0077] In a group represented by the formula: -Q-Ar^2 as said substituent, Ar^2 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, hydroxy, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkanoyl and aryl; Q is a single bond or carbonyl.

[0078] "Aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, hydroxy, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkanoyl and aryl" refers to unsubstituted said aryl or said heteroaryl, or said aryl or said heteroaryl, the last two groups having substituent(s) at the arbitrary, substitutable position(s) wherein said substituent may be one, two or more, preferably one or two member(s) identically or differently selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, hydroxy, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkanoyl and aryl.

[0079] The preferable examples of halogen as said substituent include fluorine, chlorine and the like.

[0080] The preferable examples of lower alkyl as said substituent include methyl, ethyl, propyl, isopropyl and the like.

[0081] The preferable examples of halo-lower alkyl as said substituent include difluoromethyl, trifluoromethyl and the like.

[0082] The preferable examples of hydroxy-lower alkyl as said substituent include hydroxymethyl, 2-hydroxyethyl, 1-hydroxy-1-methylethyl and the like.

[0083] The preferable examples of lower alkoxy as said substituent include methoxy, ethoxy and the like.

[0084] The preferable examples of halo-lower alkoxy as said substituent include fluoromethoxy, difluoromethoxy, trifluoromethoxy and the like.

[0085] The preferable examples of lower alkylamino as said substituent include methylamino, ethylamino and the like.

[0086] The preferable examples of di-lower alkylamino as said substituent include dimethylamino, diethylamino and the like.

[0087] The preferable examples of lower alkanoyl as said substituent include acetyl, propionyl and the like.

[0088] The preferable examples of aryl as said substituent include phenyl and the like.

[0089] The preferable examples of the substituent of Ar^2 include halogen, cyano, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, hydroxy, halo-lower alkoxy and the like.

[0090] The preferable examples of aryl as Ar^2 include phenyl and the like, and preferred examples of heteroaryl as Ar^2 include imidazolyl, pyridyl, benzofuranyl, quinolyl and the like.

[0091] Thus, the preferable examples of a group represented by the formula: -Q-Ar^2 include phenyl, 2-fluorophenyl, 3-fluorophenyl, 4-fluorophenyl, 2,3-difluorophenyl, 2,4-difluorophenyl, 3,5-difluorophenyl, 2-chlorophenyl, 3-chlorophenyl, 4-chlorophenyl, 2-cyanophenyl, 3-cyanophenyl, 4-cyanophenyl, 2-methylphenyl, 3-methylphenyl, 4-methylphenyl, 2-fluoro-5-methylphenyl, 3-fluoromethylphenyl, 2-trifluoromethylphenyl, 3-trifluoromethylphenyl, 4-trifluoromethylphenyl, 2-methoxyphenyl, 3-methoxyphenyl, 4-methoxyphenyl, 3-fluoro-5-methoxyphenyl, 3-fluoromethoxyphenyl, 3-difluoromethoxyphenyl, 3-(2-hydroxyethyl)phenyl, 3-hydroxymethylphenyl, 3-(1-hydroxy-1-methylethyl)phenyl, 3-hydroxyphenyl, 4-hydroxyphenyl, 2-imidazolyl, 1-ethyl-2-imidazolyl, 1,2,4-thiadiazol-5-yl, 1,3,4-thiadiazol-2-yl, 2-pyridyl, 3-pyridyl, 4-pyridyl, 2-ethyl-4-pyridyl, 4-pyrimidinyl, 5-pyrimidinyl, 4-benzo[b]furanyl, 5-benzo[b]furanyl, 7-benzo[b]furanyl, 2-quinolyl, 3-quinolyl, 4-quinolyl, 5-quinolyl, 6-quinolyl, 8-quinolyl, benzoyl, 2-pyridylcarbonyl and the like, among which the more preferable examples are phenyl, 2-fluorophenyl, 3-fluorophenyl, 3,5-difluorophenyl, 3-chlorophenyl, 4-chlorophenyl, 3-cyanophenyl, 3-trifluoromethylphenyl, 3-difluoromethoxyphenyl, 3-(2-hydroxyethyl)phenyl, 3-hydroxyphenyl, 4-hydroxyphenyl, 1-ethyl-2-imidazolyl, 2-pyridyl, 7-benzo[b]furanyl, 2-quinolyl, 3-quinolyl, benzoyl, 2-pyridylcarbonyl and the like.

[0092] The preferable examples of the substituent of Ar^1 include halogen, lower alkyl, halo-lower alkyl, lower alkenyl, lower alkoxy, di-loweralkylamino, loweralkanoyl, -Q-Ar^2 and the like, more preferably, halogen, halo-lower alkyl, lower alkoxy, di-lower alkylamino and the like.

[0093] The preferable examples of aryl as Ar^1 preferably include phenyl and the like, and the preferable examples of heteroaryl as Ar^1 preferably include imidazolyl, pyrazolyl, thiazolyl, oxazolyl, isoxazolyl, 1,2,4-thiadiazolyl, pyridyl, pyrazinyl, pyrimidinyl, 1,2,4-triazinyl, benzoxazolyl, benzothiazolyl, quinolyl, pyrido[3,2-b]pyridyl and the like, more preferably, pyridyl and the like.

[0094] R^0 refers to hydrogen, or lower alkylene attached to an arbitrary, bondable position of A.

[0095] The preferable examples of lower alkylene as R^0 include methylene, ethylene, trimethylene, tetramethylene and the like.

[0096] Thus, a group represented by the formula: -A-Ar^1-R^0 includes, for example, 1-phenyl-3-pyrrolidinyl, 1-(2-fluorophenyl)-3-pyrrolidinyl, 1-(3-fluorophenyl)-3-pyrrolidinyl, 1-(4-fluorophenyl)-3-pyrrolidinyl, 1-(2-pyridyl)-3-pyrrolidinyl, 1-(3-pyridyl)-3-pyrrolidinyl, 1-(4-pyridyl)-3-pyrrolidinyl, 1-(3,5-difluorophenyl)-3-pyrrolidinyl, 1-(3-trifluoromethylphenyl)-3-pyrrolidinyl, 1-(2-pyrimidinyl)-3-pyrrolidinyl, 5-oxo-1-phenyl-3-pyrrolidinyl, 1-phenyl-4-piperidyl, 1-(2-fluorophenyl)-4-piperidyl, 1-(3-fluorophenyl)-4-piperidyl, 1-(4-fluorophenyl)-4-piperidyl, 1-(3,5-difluorophenyl)-4-piperidyl, 1-(2-pyridyl)-4-piperidyl, 1-(3-pyridyl)-4-piperidyl, 1-(4-pyridyl)-4-piperidyl, 3-hydroxymethyl-1-phenyl-4-piperidyl, 3-methoxycarbonyl-1-phenyl-4-piperidyl, 3-ethoxycarbonyl-1-phenyl-4-piperidyl, 3-isopropoxycarbonyl-1-phenyl-4-piperidyl, 1-phenyl-3-piperidyl, 1-(2-fluorophenyl)-3-piperidyl, 1-(3-fluorophenyl)-3-piperidyl, 1-(4-fluorophenyl)-3-piperidyl, 1-(3,5-difluorophenyl)-3-piperidyl, 1-(2-pyridyl)-3-piperidyl, 1-(3-pyridyl)-3-piperidyl, 1-(4-pyridyl)-3-piperidyl, 3-phenylcyclopentyl, 3-phenylcyclohexyl, 4-phenylcyclohexyl, 4-(2-fluorophenyl)cyclohexyl, 4-(3-fluorophenyl)cyclohexyl, 4-(4-fluorophenyl)cyclohexyl, 4-(2-pyridyl)cyclohexyl, 4-(3-pyridyl)cyclohexyl, 4-(4-pyridyl)cyclohexyl, 4-(4-fluoro-3-pyridyl)cyclohexyl, 4-(3-quinolyl)cyclohexyl, 4-(3-fluorophenyl)-4-hydroxycyclohexyl, 6-phenyl-3-tetrahydropyranyl, 6-(3-fluorophenyl)-3-tetrahydropyranyl, 2-phenylcyclopropyl, 2-(2-pyridyl)cyclopropyl, 2-(3-pyridyl)cyclopropyl, 2-(4-pyridyl)cyclopropyl, 2-indanyl, 2-tetrahydronaphthyl, 6-methoxy-2-tetrahydronaphthyl, benzyl, phenethyl, 3-phenylpropyl, 4-phenylbutyl, 4-bromophenethyl, 3-methoxyphenethyl, 2-propyloxyphenethyl, 4-dimethylaminophenethyl, 3,5-difluorophenethyl, 3,4-dimethoxyphenethyl, 4-(dimethylamino)-2-methoxyphenethyl, 2-(3-quinolyl)ethyl, 2-hydroxy-2-(3-quinolyl)ethyl, 2-hydroxy-2-phenylethyl, benzoylmethyl, 2-hydroxy-2-(4-dimethylaminophenyl)ethyl, 2-hydroxy-2-(3,5-difluorophenyl)ethyl, 1-(hydroxymethyl)-2-phenylethyl, 1-(methoxycarbonyl)-2-phenylethyl, 1-(aminomethyl)-2-phenylethyl, 1-(isobutylaminomethyl)-2-phenylethyl, 1-benzyl-2-(benzylamino)ethyl, 1-benzyl-2-anilinoethyl, 1-benzyl-2-(2-pyridylmethylamino)ethyl, 1-benzyl-2-(3-pyridylmethylamino)ethyl, 1-benzyl-2-(N-benzyl-N-methylamino)ethyl, 1-benzyl-2-(benzyloxy)ethyl, 1-(cyclohexylmethyl)-2-(benzyloxy)ethyl, 1-benzyloxycarbonyl-2-cyclohexylethyl, 1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl, 1-(benzylcarbamoyl)-2-phenylethyl, 1-(benzylcarbamoyl)-2-cyclohexylethyl, 1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl, 1-(4-pyridylmethylcarbamoyl)-2-(4-fluorophenyl)ethyl, 1-(N-methylbenzylcarbamoyl)-2-phenylethyl, 1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl and the like, among which the more preferable examples are 1-phenyl-3-pyrrolidinyl, 1-(2-fluorophenyl)-3-pyrrolidinyl, 1-(3-fluorophenyl)-3-pyrrolidinyl, 1-(4-fluorophenyl)-3-pyrrolidinyl, 1-phenyl-4-piperidyl, 1-(2-fluorophenyl)-4-piperidyl, 1-(3-fluorophenyl)-4-piperidyl, 1-(3,5-difluorophenyl)-4-piperidyl, 4-phenylcyclohexyl, 4-(2-fluorophenyl)cyclohexyl, 4-(3-fluorophenyl)cyclohexyl, 4-dimethylaminophenethyl, 1-benzyl-2-(benzylamino)ethyl, 1-benzyl-2-(2-pyridylmethylamino)ethyl, 1-benzyl-2-(3-pyridylmethylamino)ethyl, 1-benzyl-2-(benzyloxy)ethyl, 1-(benzylcarbamoyl)-2-phenylethyl, 1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl and the like.

n is 0 or 1, preferably 0.

[0097] T, U, V and W are independently methine or nitrogen atom, said methine being optionally substituted by a substituent selected from the group consisting of halogen, lower alkyl, hydroxy and lower alkoxy, and at least two of T, U, V and W are said methine group;

[0098] "Methine being optionally substituted by a substituent selected from the group consisting of halogen, lower alkyl, hydroxy and lower alkoxy" refers to unsubstituted methine or methine having a substituent selected from the group consisting of halogen, lower alkyl, hydroxy and lower alkoxy.

[0099] The preferable examples of halogen as said substituent include fluorine, chlorine and the like.

[0100] The preferable examples of lower alkyl as said substituent include methyl, ethyl and the like.

[0101] The preferable examples of lower alkoxy as said substituent include methoxy, ethoxy and the like.

[0102] The preferable examples of the said substituent include halogen atom and the like.

[0103] The preferred embodiments of T, U, V and W include the case where T, U, V and W are independently methine optionally having said substituent, preferably halogen; or the case where one of T, U, V and W is nitrogen atom; and the like.

X is -N(SO_2R^1)-, -N(COR^2)- or -CO-;

Y is -C(R^3)(R^4)-, -O- or -N(R^5)-;

R^1, R^2 and R^5 are independently hydrogen, lower alkyl, aralkyl or aryl;

R^3 and R^4 are independently hydrogen, hydroxy, lower alkyl, aralkyl or aryl.

[0104] The preferable examples of lower alkyl as R^1, R^2, R^3, R^4 or R^5 include each independently methyl, ethyl, propyl and the like.

[0105] The preferable examples of aralkyl as R^1, R^2, R^3, R^4 or R^5 include each independently benzyl and the like.

[0106] The preferable examples of aryl as R^1, R^2, R^3, R^4 or R^5 include each independently phenyl and the like.

[0107] The preferable examples of R^1 and R^2 include lower alkyl and the like.

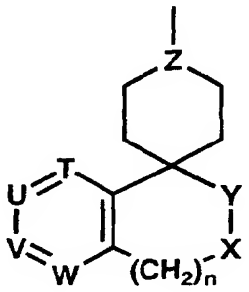
[0108] The preferred embodiments of R^3 and R^4 are the case where both R^3 and R^4 are hydrogen, and the like.

[0109] The preferable examples of R^5 include hydrogen, lower alkyl and the like, more preferably hydrogen and the like.

[0110] The preferred embodiment of X, Y and n includes, for example, the case where X is $-N(SO_2R^1)-$ or $-N(COR^2)-$, preferably $-N(SO_2R^1)-$, n is 0, and Y is $-C(R^3)(R^4)-$; or the case where X is -CO-, and Y is -O- or $-N(R^5)-$, more preferably -O-, and among which the case where X is -CO- and Y is -O- or -NH-; and the case where X is -CO- and Y is -O- are more preferable.

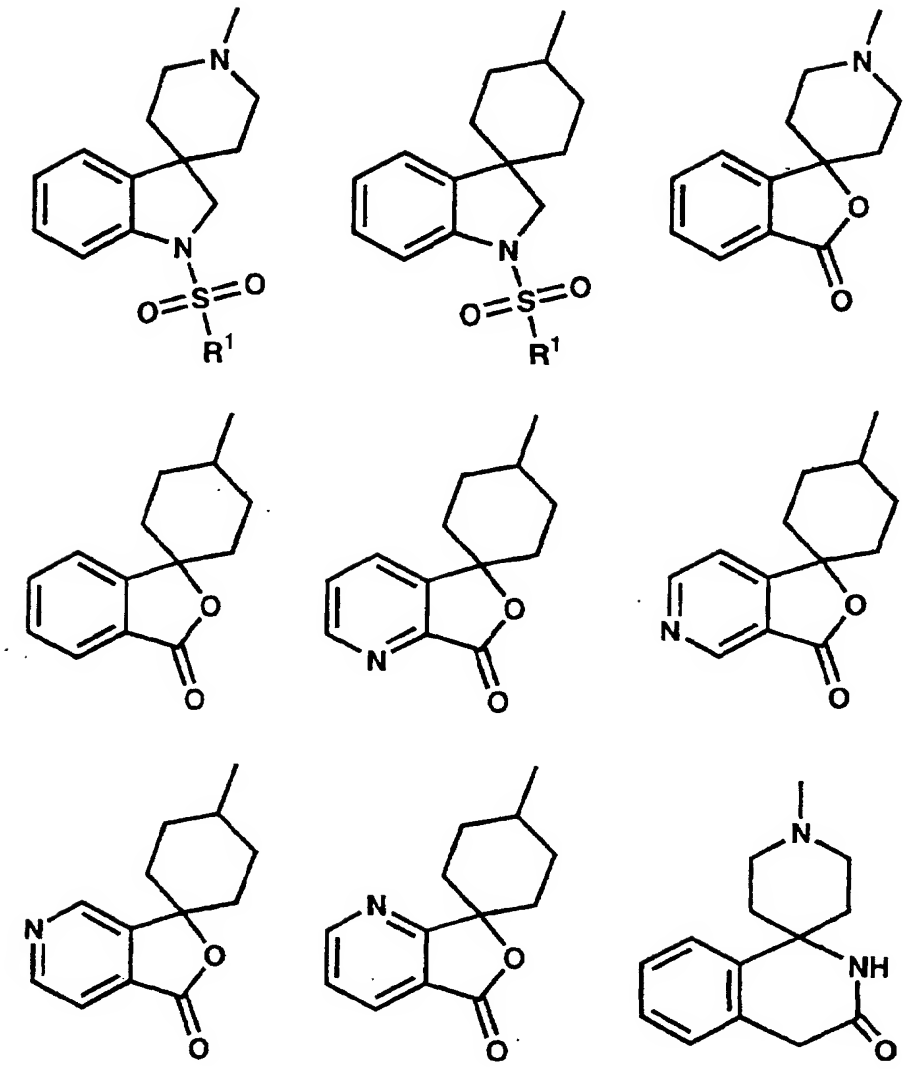
[0111] Z is methine or nitrogen atom, preferably methine.

[0112] In more detail, the preferable examples of a group of the formula (VII):



(VII)

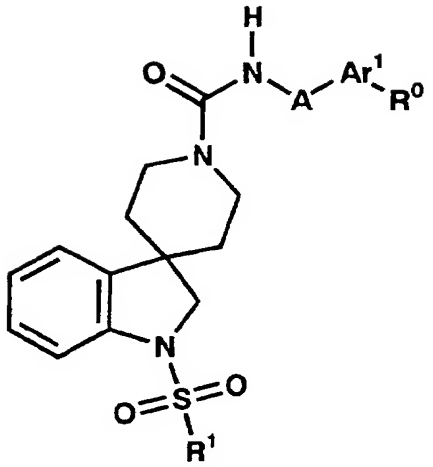
include a group represented by the following formulas (VIII):



(VIII)

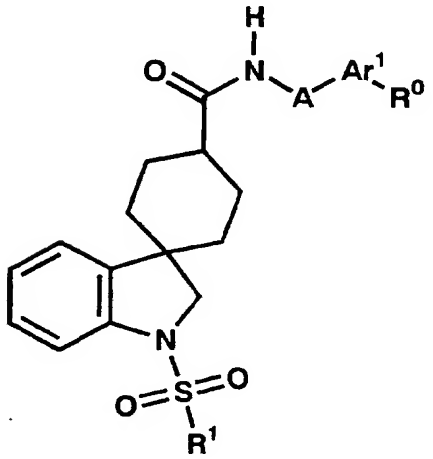
(wherein R^1 has the same meaning as defined above) and the like.

[0113] Preferred compounds of the formula (I) are, for example, compounds of the formula (I-a):



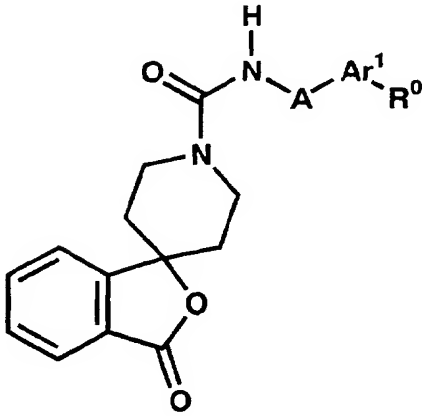
(I-a)

wherein A, Ar^1, R^0 and R^1 have the same meaning as defined above, compounds of the formula (I-b):



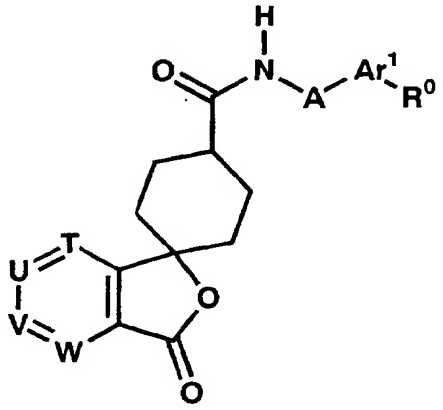
(I-b)

wherein A, Ar^1, R^0 and R^1 have the same meaning as defined above, compounds of the formula (I-c):



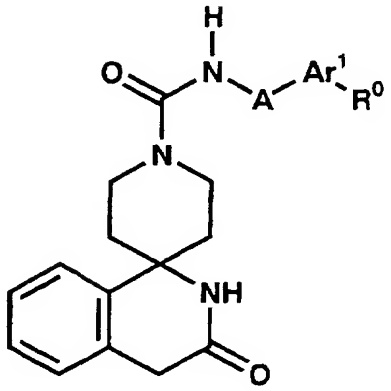
(I-c)

wherein A, Ar^1 and R^0 have the same meaning as defined above, compounds of the formula (I-d):



(I-d)

wherein A, Ar^1, R^0, T, U, V and W have the same meaning as defined above, and compounds of the formula (I-e):



(I-e)

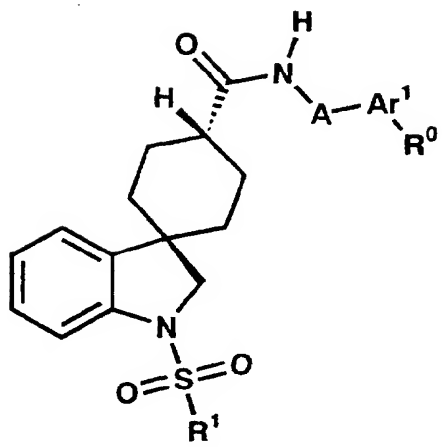
wherein A, Ar^1 and R^0 have the same meaning as defined above.

[0114] Preferred compounds of the formula (I-d) are, for example, compounds wherein all of T, U, V and W are unsubstituted methine, or compounds wherein one of T, U, V and W is nitrogen atom.

[0115] Preferred compounds of the formula (I), (I-a), (I-b), (I-c), (I-d) or (I-e) are, for example, compounds wherein aryl as Ar^1 is phenyl, or compounds wherein Ar^1 is heteroaryl which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cyclo-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl, lower alkoxycarbonyl and -Q-Ar^2.

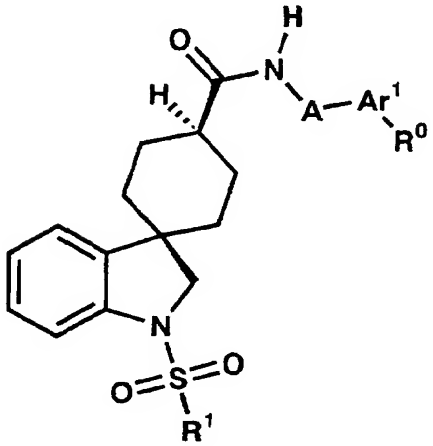
[0116] The compounds of the present invention may include stereoisomers such as optical isomers, diastereoisomers and geometrical isomers, or tautomers depending upon the mode of substituents. The compounds of the present invention include all the stereoisomers, tautomers and their mixtures.

[0117] For example, compounds of the formula (I-b) include stereoisomers such as trans-form compound of the formula (I-1b):



(I-1b)

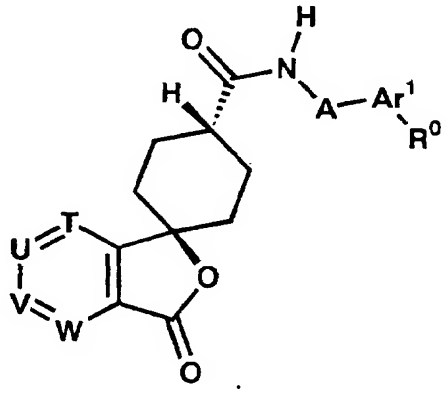
and cis-form compound of the formula (I-2b):



(I-2b)

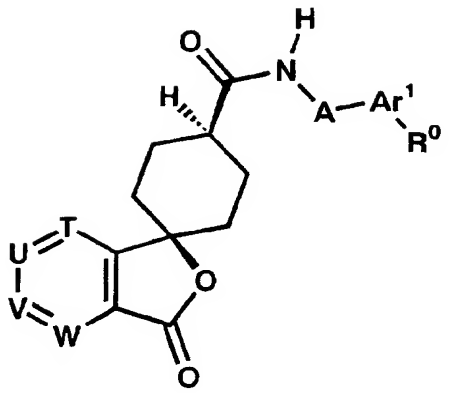
among which trans-form compound is preferred.

[0118] Also, compounds of the formula (I-d) include stereoisomers such as trans-form compound of the formula (I-1d):



(I-1d)

and cis-form compound of the formula (I-2d):



(I-2d)

among which trans-form compound is preferred.

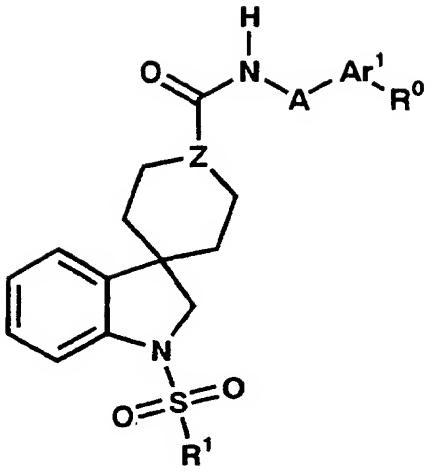
[0119] Also included within the scope of the invention are polymorphs, hydrates and solvates of the compounds of the present invention.

[0120] The present invention also includes prodrugs of the compounds of the present invention within its scope. In general, such prodrugs are functional derivatives of the compounds of the present invention which can be readily converted *in vivo* into the required compound. Thus, in the treatment methods for various diseases according to the present invention, the term "administering" shall encompass not only administration of the compound specified in this disclosure but also administration of a compound which is converted *in vivo* into the specified compound when it is administered to a patient. Conventional procedures for selection and preparation of suitable prodrug derivatives are described, for example, in "Design of Prodrugs," ed. H. Bundgaard, Elsevier (1985), which are referred and entirely incorporated in this specification. The metabolites of these compounds include active compounds which are produced upon introduction of compounds of the present invention into the biological milieu, and they are encompassed in the scope of the present invention.

[0121] The specific compounds of the formula (I) are, for example, following compounds.

[0122] In the tables, Me refers to methyl group, and Et refers to ethyl group.

Table 1



No.	R^1	Z	$A\text{-}Ar^1\text{-}R^0$
1	Me	CH	1-phenyl-3-pyrrolidinyl
2	Me	CH	1-(2-fluorophenyl)-3-pyrrolidinyl
3	Me	CH	1-(3-fluorophenyl)-3-pyrrolidinyl
4	Me	CH	1-(4-fluorophenyl)-3-pyrrolidinyl
5	Me	CH	1-(2-chlorophenyl)-3-pyrrolidinyl
6	Me	CH	1-(3-chlorophenyl)-3-pyrrolidinyl
7	Me	CH	1-(4-chlorophenyl)-3-pyrrolidinyl
8	Me	CH	1-(2-methylphenyl)-3-pyrrolidinyl
9	Me	CH	1-(3-methylphenyl)-3-pyrrolidinyl
10	Me	CH	1-(4-methylphenyl)-3-pyrrolidinyl
11	Me	CH	1-(2-methoxyphenyl)-3-pyrrolidinyl
12	Me	CH	1-(3-methoxyphenyl)-3-pyrrolidinyl
13	Me	CH	1-(4-methoxyphenyl)-3-pyrrolidinyl
14	Me	CH	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
15	Me	CH	1-(3-trifluoromethylphenyl)-3-pyrrolidinyl
16	Me	CH	1-(4-trifluoromethylphenyl)-3-pyrrolidinyl
17	Me	CH	1-(3,5-difluorophenyl)-3-pyrrolidinyl
18	Me	CH	1-(2-difluoromethoxyphenyl)-3-pyrrolidinyl
19	Me	CH	1-(3-difluoromethoxyphenyl)-3-pyrrolidinyl
20	Me	CH	1-(4-difluoromethoxyphenyl)-3-pyrrolidinyl

(continued from Table 1)

21	Me	CH	1-(2-pyridyl)-3-pyrrolidinyl
22	Me	CH	1-(3-pyridyl)-3-pyrrolidinyl
23	Me	CH	1-(4-pyridyl)-3-pyrrolidinyl
24	Me	CH	1-(2-pyrimidinyl)-3-pyrrolidinyl
25	Me	CH	5-oxo-1-phenyl-3-pyrrolidinyl
26	Me	CH	1-phenyl-3-piperidyl
27	Me	CH	1-(2-fluorophenyl)-3-piperidyl
28	Me	CH	1-(3-fluorophenyl)-3-piperidyl
29	Me	CH	1-(4-fluorophenyl)-3-piperidyl
30	Me	CH	1-(2-chlorophenyl)-3-piperidyl
31	Me	CH	1-(3-chlorophenyl)-3-piperidyl
32	Me	CH	1-(4-chlorophenyl)-3-piperidyl
33	Me	CH	1-(2-methylphenyl)-3-piperidyl
34	Me	CH	1-(3-methylphenyl)-3-piperidyl
35	Me	CH	1-(4-methylphenyl)-3-piperidyl
36	Me	CH	1-(2-methoxyphenyl)-3-piperidyl
37	Me	CH	1-(3-methoxyphenyl)-3-piperidyl
38	Me	CH	1-(4-methoxyphenyl)-3-piperidyl
39	Me	CH	1-(2-trifluoromethylphenyl)-3-piperidyl
40	Me	CH	1-(3-trifluoromethylphenyl)-3-piperidyl
41	Me	CH	1-(4-trifluoromethylphenyl)-3-piperidyl
42	Me	CH	1-(3,5-difluorophenyl)-3-piperidyl
43	Me	CH	1-(2-difluoromethoxyphenyl)-3-piperidyl
44	Me	CH	1-(3-difluoromethoxyphenyl)-3-piperidyl
45	Me	CH	1-(4-difluoromethoxyphenyl)-3-piperidyl
46	Me	CH	1-(2-pyridyl)-3-piperidyl
47	Me	CH	1-(3-pyridyl)-3-piperidyl
48	Me	CH	1-(4-pyridyl)-3-piperidyl
49	Me	CH	1-phenyl-4-piperidyl
50	Me	CH	1-(2-fluorophenyl)-4-piperidyl
51	Me	CH	1-(3-fluorophenyl)-4-piperidyl
52	Me	CH	1-(4-fluorophenyl)-4-piperidyl
53	Me	CH	1-(2-chlorophenyl)-4-piperidyl
54	Me	CH	1-(3-chlorophenyl)-4-piperidyl
55	Me	CH	1-(4-chlorophenyl)-4-piperidyl
56	Me	CH	1-(2-methylphenyl)-4-piperidyl
57	Me	CH	1-(3-methylphenyl)-4-piperidyl
58	Me	CH	1-(4-methylphenyl)-4-piperidyl
59	Me	CH	1-(2-methoxyphenyl)-4-piperidyl
60	Me	CH	1-(3-methoxyphenyl)-4-piperidyl

(continued from Table 1)

61	Me	CH	1-(4-methoxyphenyl)-4-piperidyl
62	Me	CH	1-(2-trifluoromethylphenyl)-4-piperidyl
63	Me	CH	1-(3-trifluoromethylphenyl)-4-piperidyl
64	Me	CH	1-(4-trifluoromethylphenyl)-4-piperidyl
65	Me	CH	1-(3,5-difluorophenyl)-4-piperidyl
66	Me	CH	1-(2-difluoromethoxyphenyl)-4-piperidyl
67	Me	CH	1-(3-difluoromethoxyphenyl)-4-piperidyl
68	Me	CH	1-(4-difluoromethoxyphenyl)-4-piperidyl
69	Me	CH	1-(2-pyridyl)-4-piperidyl
70	Me	CH	1-(3-pyridyl)-4-piperidyl
71	Me	CH	1-(4-pyridyl)-4-piperidyl
72	Me	CH	3-hydroxymethyl-1-phenyl-4-piperidyl
73	Me	CH	3-methoxycarbonyl-1-phenyl-4-piperidyl
74	Me	CH	3-ethoxycarbonyl-1-phenyl-4-piperidyl
75	Me	CH	3-isopropoxycarbonyl-1-phenyl-4-piperidyl
76	Me	CH	4-phenylcyclohexyl
77	Me	CH	4-(2-fluorophenyl)cyclohexyl
78	Me	CH	4-(3-fluorophenyl)cyclohexyl
79	Me	CH	4-(4-fluorophenyl)cyclohexyl
80	Me	CH	4-(2-chlorophenyl)cyclohexyl
81	Me	CH	4-(3-chlorophenyl)cyclohexyl
82	Me	CH	4-(4-chlorophenyl)cyclohexyl
83	Me	CH	4-(2-methylphenyl)cyclohexyl
84	Me	CH	4-(3-methylphenyl)cyclohexyl
85	Me	CH	4-(4-methylphenyl)cyclohexyl
86	Me	CH	4-(2-methoxyphenyl)cyclohexyl
87	Me	CH	4-(3-methoxyphenyl)cyclohexyl
88	Me	CH	4-(4-methoxyphenyl)cyclohexyl
89	Me	CH	4-(2-trifluoromethylphenyl)cyclohexyl
90	Me	CH	4-(3-trifluoromethylphenyl)cyclohexyl
91	Me	CH	4-(4-trifluoromethylphenyl)cyclohexyl
92	Me	CH	4-(3,5-difluorophenyl)cyclohexyl
93	Me	CH	4-(3-acetylphenyl)cyclohexyl
94	Me	CH	4-(3-cyanophenyl)cyclohexyl
95	Me	CH	4-(2-difluoromethoxyphenyl)cyclohexyl
96	Me	CH	4-(3-difluoromethoxyphenyl)cyclohexyl
97	Me	CH	4-(4-difluoromethoxyphenyl)cyclohexyl
98	Me	CH	4-(2-pyridyl)cyclohexyl
99	Me	CH	4-(3-pyridyl)cyclohexyl
100	Me	CH	4-(4-pyridyl)cyclohexyl

(continued from Table 1)

101	Me	CH	4-(4-fluoro-3-pyridyl)cyclohexyl
102	Me	CH	4-(3-quinolyl)cyclohexyl
103	Me	CH	4-(3-fluorophenyl)-4-hydroxycyclohexyl
104	Me	CH	3-phenylcyclohexyl
105	Me	CH	3-phenylcyclopentyl
106	Me	CH	6-phenyl-3-tetrahydropyranyl
107	Me	CH	6-(3-fluorophenyl)-3-tetrahydropyranyl
108	Me	CH	2-phenylcyclopropyl
109	Me	CH	2-(2-pyridyl)cyclopropyl
110	Me	CH	2-(3-pyridyl)cyclopropyl
111	Me	CH	2-(4-pyridyl)cyclopropyl
112	Me	CH	2-(3-fluorophenyl)cyclopropyl
113	Me	CH	2-indanyl
114	Me	CH	2-tetrahydronaphthyl
115	Me	CH	6-methoxy-2-tetrahydronaphthyl
116	Me	CH	benzyl
117	Me	CH	phenethyl
118	Me	CH	3-phenylpropyl
119	Me	CH	4-phenylbutyl
120	Me	CH	2-methoxyphenethyl
121	Me	CH	3-methoxyphenethyl
122	Me	CH	4-methoxyphenethyl
123	Me	CH	4-fluorophenethyl
124	Me	CH	4-bromophenethyl
125	Me	CH	4-chlorophenethyl
126	Me	CH	3-trifluoromethylphenethyl
127	Me	CH	3,4-dimethoxyphenethyl
128	Me	CH	3-propoxyphenethyl
129	Me	CH	3,5-difluorophenethyl
130	Me	CH	4-dimethylaminophenethyl
131	Me	CH	3-difluoromethoxyphenethyl
132	Me	CH	2-methylphenethyl
133	Me	CH	4-acetylphenethyl
134	Me	CH	4-dimethylamino-2-methoxyphenethyl
135	Me	CH	cyclohexylethyl
136	Me	CH	2-(2-pyridyl)ethyl
137	Me	CH	2-(3-pyridyl)ethyl
138	Me	CH	2-(4-pyridyl)ethyl
139	Me	CH	2-(2-quinolyl)ethyl
140	Me	CH	2-(3-quinolyl)ethyl

(continued from Table 1)

141	Me	CH	2-(4-quinolyl)ethyl
142	Me	CH	2-(6-quinolyl)ethyl
143	Me	CH	2-(2-indolyl)ethyl
144	Me	CH	2-(3-indolyl)ethyl
145	Me	CH	2-(7-aza-3-indolyl)ethyl
146	Me	CH	2-(benzimidazolyl)ethyl
147	Me	CH	2-(benzoxazolyl)ethyl
148	Me	CH	2-(benzothiazolyl)ethyl
149	Me	CH	2-(1-naphthyl)ethyl
150	Me	CH	2-(2-naphthyl)ethyl
151	Me	CH	1-(hydroxymethyl)-2-phenylethyl
152	Me	CH	1-(methoxycarbonyl)-2-phenylethyl
153	Me	CH	1-(ethoxycarbonyl)-2-phenylethyl
154	Me	CH	1-carboxy-2-phenylethyl
155	Me	CH	1-(benzyloxycarbonyl)-2-phenylethyl
156	Me	CH	1-(phenoxymethyl)-2-phenylethyl
157	Me	CH	1-(benzyloxymethyl)-2-phenylethyl
158	Me	CH	1-(benzylcarbamoyl)-2-phenylethyl
159	Me	CH	1-(N-methylbenzylcarbamoyl)-2-phenylethyl
160	Me	CH	1-(phenylcarbamoyl)-2-phenylethyl
161	Me	CH	1-(N-methylphenylcarbamoyl)-2-phenylethyl
162	Me	CH	1-(N-benzylaminomethyl)-2-phenylethyl
163	Me	CH	1-(N-benzyl-N-methylaminomethyl)-2-phenylethyl
164	Me	CH	1-(anilinomethyl)-2-phenylethyl
165	Me	CH	1-(N-methylanilinomethyl)-2-phenylethyl
166	Me	CH	1-(N-methylaminomethyl)-2-phenylethyl
167	Me	CH	1-(N-ethylaminomethyl)-2-phenylethyl
168	Me	CH	1-(N-isobutylaminomethyl)-2-phenylethyl
169	Me	CH	1-(N-cyclopropylmethylaminomethyl)-2-phenylethyl
170	Me	CH	1-(aminomethyl)-2-phenylethyl
171	Me	CH	1-benzyl-2-(2-pyridylmethylamino)ethyl
172	Me	CH	1-benzyl-2-(3-pyridylmethylamino)ethyl
173	Me	CH	1-benzyl-2-(4-pyridylmethylamino)ethyl
174	Me	CH	2-phenyl-1-(2-pyridylmethylcarbamoyl)ethyl
175	Me	CH	2-phenyl-1-(3-pyridylmethylcarbamoyl)ethyl
176	Me	CH	2-phenyl-1-(4-pyridylmethylcarbamoyl)ethyl
177	Me	CH	2-hydroxy-2-phenylethyl
178	Me	CH	benzoylmethyl
179	Me	CH	1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl
180	Me	CH	1-(benzyloxycarbonyl)-2-cyclohexylethyl

(continued from Table 1)

181	Me	CH	1-(phenoxymethyl)-2-(3-indolyl)ethyl
182	Me	CH	2-(2-methoxyphenoxy)ethyl
183	Me	CH	1-(benzylcarbamoyl)-2-cyclohexylethyl
184	Me	CH	1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl
185	Me	CH	1-(phenylcarbamoyl)-2-cyclohexylethyl
186	Me	CH	1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
187	Me	CH	1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl
188	Me	CH	1-(benzylaminomethyl)-2-(3-pyridyl)ethyl
189	Me	CH	1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl
190	Me	CH	1-(4-pyridylmethylcarbamoyl)-2-(4-fluoro-phenyl)ethyl
191	Me	CH	1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
192	Me	CH	1-(benzyloxymethyl)-2-(2-indolyl)ethyl
193	Me	CH	1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl
194	Me	CH	1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
195	Me	CH	2-hydroxy-2-(4-dimethylaminophenyl)ethyl
196	Me	CH	2-hydroxy-2-(2-quinolyl)ethyl
197	Me	CH	2-hydroxy-2-(3-quinolyl)ethyl
198	Me	CH	2-hydroxy-2-(4-quinolyl)ethyl
199	Me	CH	2-hydroxy-2-(3,5-difluorophenyl)ethyl
200	Me	CH	1-carboxy-2-cyclohexylethyl
201	Me	CH	2-hydroxy-2-(6-quinolyl)ethyl
202	Me	CH	2-(benzylamino)-2-phenylethyl
203	Me	CH	2-amino-2-(2-naphthyl)propyl
204	Me	CH	2-(phenylamino)ethyl
205	Me	CH	diphenylmethyl
206	Me	CH	2,2-diphenylethyl
207	Me	CH	2-phenyl-2-(2-pyridyl)ethyl
208	Me	CH	2-phenyl-2-(3-pyridyl)ethyl
209	Me	CH	2-phenyl-2-(4-pyridyl)ethyl
210	Me	CH	2-phenoxy-2-phenylethyl
211	Me	CH	2-(benzyloxy)-2-phenylethyl
212	Et	CH	1-phenyl-3-pyrrolidinyl
213	Et	CH	1-(2-fluorophenyl)-3-pyrrolidinyl
214	Et	CH	1-(3-fluorophenyl)-3-pyrrolidinyl
215	Et	CH	1-(4-fluorophenyl)-3-pyrrolidinyl
216	Et	CH	1-(2-chlorophenyl)-3-pyrrolidinyl
217	Et	CH	1-(3-chlorophenyl)-3-pyrrolidinyl
218	Et	CH	1-(4-chlorophenyl)-3-pyrrolidinyl
219	Et	CH	1-(2-methylphenyl)-3-pyrrolidinyl
220	Et	CH	1-(3-methylphenyl)-3-pyrrolidinyl

(continued from Table 1)

221	Et	CH	1-(4-methylphenyl)-3-pyrrolidinyl
222	Et	CH	1-(2-methoxyphenyl)-3-pyrrolidinyl
223	Et	CH	1-(3-methoxyphenyl)-3-pyrrolidinyl
224	Et	CH	1-(4-methoxyphenyl)-3-pyrrolidinyl
225	Et	CH	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
226	Et	CH	1-(3-trifluoromethylphenyl)-3-pyrrolidinyl
227	Et	CH	1-(4-trifluoromethylphenyl)-3-pyrrolidinyl
228	Et	CH	1-(3,5-difluorophenyl)-3-pyrrolidinyl
229	Et	CH	1-(2-difluoromethoxyphenyl)-3-pyrrolidinyl
230	Et	CH	1-(3-difluoromethoxyphenyl)-3-pyrrolidinyl
231	Et	CH	1-(4-difluoromethoxyphenyl)-3-pyrrolidinyl
232	Et	CH	1-(2-pyridyl)-3-pyrrolidinyl
233	Et	CH	1-(3-pyridyl)-3-pyrrolidinyl
234	Et	CH	1-(4-pyridyl)-3-pyrrolidinyl
235	Et	CH	1-(2-pyrimidinyl)-3-pyrrolidinyl
236	Et	CH	5-oxo-1-phenyl-3-pyrrolidinyl
237	Et	CH	1-phenyl-3-piperidyl
238	Et	CH	1-(2-fluorophenyl)-3-piperidyl
239	Et	CH	1-(3-fluorophenyl)-3-piperidyl
240	Et	CH	1-(4-fluorophenyl)-3-piperidyl
241	Et	CH	1-(2-chlorophenyl)-3-piperidyl
242	Et	CH	1-(3-chlorophenyl)-3-piperidyl
243	Et	CH	1-(4-chlorophenyl)-3-piperidyl
244	Et	CH	1-(2-methylphenyl)-3-piperidyl
245	Et	CH	1-(3-methylphenyl)-3-piperidyl
246	Et	CH	1-(4-methylphenyl)-3-piperidyl
247	Et	CH	1-(2-methoxyphenyl)-3-piperidyl
248	Et	CH	1-(3-methoxyphenyl)-3-piperidyl
249	Et	CH	1-(4-methoxyphenyl)-3-piperidyl
250	Et	CH	1-(2-trifluoromethylphenyl)-3-piperidyl
251	Et	CH	1-(3-trifluoromethylphenyl)-3-piperidyl
252	Et	CH	1-(4-trifluoromethylphenyl)-3-piperidyl
253	Et	CH	1-(3,5-difluorophenyl)-3-piperidyl
254	Et	CH	1-(2-difluoromethoxyphenyl)-3-piperidyl
255	Et	CH	1-(3-difluoromethoxyphenyl)-3-piperidyl
256	Et	CH	1-(4-difluoromethoxyphenyl)-3-piperidyl
257	Et	CH	1-(2-pyridyl)-3-piperidyl
258	Et	CH	1-(3-pyridyl)-3-piperidyl
259	Et	CH	1-(4-pyridyl)-3-piperidyl
260	Et	CH	1-phenyl-4-piperidyl

(continued from Table 1)

261	Et	CH	1-(2-fluorophenyl)-4-piperidyl
262	Et	CH	1-(3-fluorophenyl)-4-piperidyl
263	Et	CH	1-(4-fluorophenyl)-4-piperidyl
264	Et	CH	1-(2-chloropheny)-4-piperidyl
265	Et	CH	1-(3-chloropheny)-4-piperidyl
266	Et	CH	1-(4-chloropheny)-4-piperidyl
267	Et	CH	1-(2-methylpheny)-4-piperidyl
268	Et	CH	1-(3-methylpheny)-4-piperidyl
269	Et	CH	1-(4-methylpheny)-4-piperidyl
270	Et	CH	1-(2-methoxypheny)-4-piperidyl
271	Et	CH	1-(3-methoxypheny)-4-piperidyl
272	Et	CH	1-(4-methoxypheny)-4-piperidyl
273	Et	CH	1-(2-trifluoromethylpheny)-4-piperidyl
274	Et	CH	1-(3-trifluoromethylpheny)-4-piperidyl
275	Et	CH	1-(4-trifluoromethylpheny)-4-piperidyl
276	Et	CH	1-(3,5-difluorophenyl)-4-piperidyl
277	Et	CH	1-(2-difluoromethoxyphenyl)-4-piperidyl
278	Et	CH	1-(3-difluoromethoxyphenyl)-4-piperidyl
279	Et	CH	1-(4-difluoromethoxyphenyl)-4-piperidyl
280	Et	CH	1-(2-pyridyl)-4-piperidyl
281	Et	CH	1-(3-pyridyl)-4-piperidyl
282	Et	CH	1-(4-pyridyl)-4-piperidyl
283	Et	CH	3-hydroxymethyl-1-phenyl-4-piperidyl
284	Et	CH	3-methoxycarbonyl-1-phenyl-4-piperidyl
285	Et	CH	3-ethoxycarbonyl-1-phenyl-4-piperidyl
286	Et	CH	3-isopropoxycarbonyl-1-phenyl-4-piperidyl
287	Et	CH	4-phenylcyclohexyl
288	Et	CH	4-(2-fluorophenyl)cyclohexyl
289	Et	CH	4-(3-fluorophenyl)cyclohexyl
290	Et	CH	4-(4-fluorophenyl)cyclohexyl
291	Et	CH	4-(2-chlorophenyl)cyclohexyl
292	Et	CH	4-(3-chlorophenyl)cyclohexyl
293	Et	CH	4-(4-chlorophenyl)cyclohexyl
294	Et	CH	4-(2-methylphenyl)cyclohexyl
295	Et	CH	4-(3-methylphenyl)cyclohexyl
296	Et	CH	4-(4-methylphenyl)cyclohexyl
297	Et	CH	4-(2-methoxyphenyl)cyclohexyl
298	Et	CH	4-(3-methoxyphenyl)cyclohexyl
299	Et	CH	4-(4-methoxyphenyl)cyclohexyl
300	Et	CH	4-(2-trifluoromethylphenyl)cyclohexyl

(continued from Table 1)

301	Et	CH	4-(3-trifluoromethylphenyl)cyclohexyl
302	Et	CH	4-(4-trifluoromethylphenyl)cyclohexyl
303	Et	CH	4-(3,5-difluorophenyl)cyclohexyl
304	Et	CH	4-(3-acetylphenyl)cyclohexyl
305	Et	CH	4-(3-cyanophenyl)cyclohexyl
306	Et	CH	4-(2-difluoromethoxyphenyl)cyclohexyl
307	Et	CH	4-(3-difluoromethoxyphenyl)cyclohexyl
308	Et	CH	4-(4-difluoromethoxyphenyl)cyclohexyl
309	Et	CH	4-(2-pyridyl)cyclohexyl
310	Et	CH	4-(3-pyridyl)cyclohexyl
311	Et	CH	4-(4-pyridyl)cyclohexyl
312	Et	CH	4-(4-fluoro-3-pyridyl)cyclohexyl
313	Et	CH	4-(3-quinolyl)cyclohexyl
314	Et	CH	4-(3-fluorophenyl)-4-hydroxycyclohexyl
315	Et	CH	3-phenylcyclohexyl
316	Et	CH	3-phenylcyclopentyl
317	Et	CH	6-phenyl-3-tetrahydropyranyl
318	Et	CH	6-(3-fluorophenyl)-3-tetrahydropyranyl
319	Et	CH	2-phenylcyclopropyl
320	Et	CH	2-(2-pyridyl)cyclopropyl
321	Et	CH	2-(3-pyridyl)cyclopropyl
322	Et	CH	2-(4-pyridyl)cyclopropyl
323	Et	CH	2-(3-fluorophenyl)cyclopropyl
324	Et	CH	2-indanyl
325	Et	CH	2-tetrahydronaphthyl
326	Et	CH	6-methoxy-2-tetrahydronaphthyl
327	Et	CH	benzyl
328	Et	CH	phenethyl
329	Et	CH	3-phenylpropyl
330	Et	CH	4-phenylbutyl
331	Et	CH	2-methoxyphenethyl
332	Et	CH	3-methoxyphenethyl
333	Et	CH	4-methoxyphenethyl
334	Et	CH	4-fluorophenethyl
335	Et	CH	4-bromophenethyl
336	Et	CH	4-chlorophenethyl
337	Et	CH	3-trifluoromethylphenethyl
338	Et	CH	3,4-dimethoxyphenethyl
339	Et	CH	3-propoxyphenethyl
340	Et	CH	3,5-difluorophenethyl

(continued from Table 1)

341	Et	CH	4-dimethylaminophenethyl
342	Et	CH	3-difluoromethoxyphenethyl
343	Et	CH	2-methylphenethyl
344	Et	CH	4-acetylphenethyl
345	Et	CH	4-dimethylamino-2-methoxyphenethyl
346	Et	CH	cyclohexylethyl
347	Et	CH	2-(2-pyridyl)ethyl
348	Et	CH	2-(3-pyridyl)ethyl
349	Et	CH	2-(4-pyridyl)ethyl
350	Et	CH	2-(2-quinolyl)ethyl
351	Et	CH	2-(3-quinolyl)ethyl
352	Et	CH	2-(4-quinolyl)ethyl
353	Et	CH	2-(6-quinolyl)ethyl
354	Et	CH	2-(2-indolyl)ethyl
355	Et	CH	2-(3-indolyl)ethyl
356	Et	CH	2-(7-aza-3-indolyl)ethyl
357	Et	CH	2-(benzimidazolyl)ethyl
358	Et	CH	2-(benzoxazolyl)ethyl
359	Et	CH	2-(benzothiazolyl)ethyl
360	Et	CH	2-(1-naphthyl)ethyl
361	Et	CH	2-(2-naphthyl)ethyl
362	Et	CH	1-(hydroxymethyl)-2-phenylethyl
363	Et	CH	1-(methoxycarbonyl)-2-phenylethyl
364	Et	CH	1-(ethoxycarbonyl)-2-phenylethyl
365	Et	CH	1-carboxy-2-phenylethyl
366	Et	CH	1-(benzyloxycarbonyl)-2-phenylethyl
367	Et	CH	1-(phenoxymethyl)-2-phenylethyl
368	Et	CH	1-(benzyloxymethyl)-2-phenylethyl
369	Et	CH	1-(benzylcarbamoyl)-2-phenylethyl
370	Et	CH	1-(N-methylbenzylcarbamoyl)-2-phenylethyl
371	Et	CH	1-(phenylcarbamoyl)-2-phenylethyl
372	Et	CH	1-(N-methylphenylcarbamoyl)-2-phenylethyl
373	Et	CH	1-(N-benzylaminomethyl)-2-phenylethyl
374	Et	CH	1-(N-benzyl-N-methylaminomethyl)-2-phenylethyl
375	Et	CH	1-(anilinomethyl)-2-phenylethyl
376	Et	CH	1-(N-methylanilinomethyl)-2-phenylethyl
377	Et	CH	1-(N-methylaminomethyl)-2-phenylethyl
378	Et	CH	1-(N-ethylaminomethyl)-2-phenylethyl
379	Et	CH	1-(N-isobutylaminomethyl)-2-phenylethyl
380	Et	CH	1-(N-cyclopropylmethylaminomethyl)-2-phenylethyl

(continued from Table 1)

381	Et	CH	1-(aminomethyl)-2-phenylethyl
382	Et	CH	1-benzyl-2-(2-pyridylmethylamino)ethyl
383	Et	CH	1-benzyl-2-(3-pyridylmethylamino)ethyl
384	Et	CH	1-benzyl-2-(4-pyridylmethylamino)ethyl
385	Et	CH	2-phenyl-1-(2-pyridylmethylcarbamoyl)ethyl
386	Et	CH	2-phenyl-1-(3-pyridylmethylcarbamoyl)ethyl
387	Et	CH	2-phenyl-1-(4-pyridylmethylcarbamoyl)ethyl
388	Et	CH	2-hydroxy-2-phenylethyl
389	Et	CH	benzoylmethyl
390	Et	CH	1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl
391	Et	CH	1-(benzyloxycarbonyl)-2-cyclohexylethyl
392	Et	CH	1-(phenoxymethyl)-2-(3-indolyl)ethyl
393	Et	CH	2-(2-methoxyphenoxyy)ethyl
394	Et	CH	1-(benzylcarbamoyl)-2-cyclohexylethyl
395	Et	CH	1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl
396	Et	CH	1-(phenylcarbamoyl)-2-cyclohexylethyl
397	Et	CH	1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
398	Et	CH	1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl
399	Et	CH	1-(benzylaminomethyl)-2-(3-pyridyl)ethyl
400	Et	CH	1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl
401	Et	CH	1-(4-pyridylmethylcarbamoyl)-2-(4-fluoro-phenyl)ethyl
402	Et	CH	1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
403	Et	CH	1-(benzyloxymethyl)-2-(2-indolyl)ethyl
404	Et	CH	1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl
405	Et	CH	1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
406	Et	CH	2-hydroxy-2-(4-dimethylaminophenyl)ethyl
407	Et	CH	2-hydroxy-2-(2-quinolyl)ethyl
408	Et	CH	2-hydroxy-2-(3-quinolyl)ethyl
409	Et	CH	2-hydroxy-2-(4-quinolyl)ethyl
410	Et	CH	2-hydroxy-2-(3,5-difluorophenyl)ethyl
411	Et	CH	1-carboxy-2-cyclohexylethyl
412	Et	CH	2-hydroxy-2-(6-quinolyl)ethyl
413	Et	CH	2-(benzylamino)-2-phenylethyl
414	Et	CH	2-amino-2-(2-naphthyl)propyl
415	Et	CH	2-(phenylamino)ethyl
416	Et	CH	diphenylmethyl
417	Et	CH	2,2-diphenylethyl
418	Et	CH	2-phenyl-2-(2-pyridyl)ethyl
419	Et	CH	2-phenyl-2-(3-pyridyl)ethyl
420	Et	CH	2-phenyl-2-(4-pyridyl)ethyl

(continued from Table 1)

421	Et	CH	2-phenoxy-2-phenylethyl
422	Et	CH	2-(benzyloxy)-2-phenylethyl
423	Me	N	1-phenyl-3-pyrrolidinyl
424	Me	N	1-(2-fluorophenyl)-3-pyrrolidinyl
425	Me	N	1-(3-fluorophenyl)-3-pyrrolidinyl
426	Me	N	1-(4-fluorophenyl)-3-pyrrolidinyl
427	Me	N	1-(2-chlorophenyl)-3-pyrrolidinyl
428	Me	N	1-(3-chlorophenyl)-3-pyrrolidinyl
429	Me	N	1-(4-chlorophenyl)-3-pyrrolidinyl
430	Me	N	1-(2-methylphenyl)-3-pyrrolidinyl
431	Me	N	1-(3-methylphenyl)-3-pyrrolidinyl
432	Me	N	1-(4-methylphenyl)-3-pyrrolidinyl
433	Me	N	1-(2-methoxyphenyl)-3-pyrrolidinyl
434	Me	N	1-(3-methoxyphenyl)-3-pyrrolidinyl
435	Me	N	1-(4-methoxyphenyl)-3-pyrrolidinyl
436	Me	N	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
437	Me	N	1-(3-trifluoromethylphenyl)-3-pyrrolidinyl
438	Me	N	1-(4-trifluoromethylphenyl)-3-pyrrolidinyl
439	Me	N	1-(3,5-difluorophenyl)-3-pyrrolidinyl
440	Me	N	1-(2-difluoromethoxyphenyl)-3-pyrrolidinyl
441	Me	N	1-(3-difluoromethoxyphenyl)-3-pyrrolidinyl
442	Me	N	1-(4-difluoromethoxyphenyl)-3-pyrrolidinyl
443	Me	N	1-(2-pyridyl)-3-pyrrolidinyl
444	Me	N	1-(3-pyridyl)-3-pyrrolidinyl
445	Me	N	1-(4-pyridyl)-3-pyrrolidinyl
446	Me	N	1-(2-pyrimidinyl)-3-pyrrolidinyl
447	Me	N	5-oxo-1-phenyl-3-pyrrolidinyl
448	Me	N	1-phenyl-3-piperidyl
449	Me	N	1-(2-fluorophenyl)-3-piperidyl
450	Me	N	1-(3-fluorophenyl)-3-piperidyl
451	Me	N	1-(4-fluorophenyl)-3-piperidyl
452	Me	N	1-(2-chlorophenyl)-3-piperidyl
453	Me	N	1-(3-chlorophenyl)-3-piperidyl
454	Me	N	1-(4-chlorophenyl)-3-piperidyl
455	Me	N	1-(2-methylphenyl)-3-piperidyl
456	Me	N	1-(3-methylphenyl)-3-piperidyl
457	Me	N	1-(4-methylphenyl)-3-piperidyl
458	Me	N	1-(2-methoxyphenyl)-3-piperidyl
459	Me	N	1-(3-methoxyphenyl)-3-piperidyl
460	Me	N	1-(4-methoxyphenyl)-3-piperidyl

(continued from Table 1)

461	Me	N	1-(2-trifluoromethylphenyl)-3-piperidyl
462	Me	N	1-(3-trifluoromethylphenyl)-3-piperidyl
463	Me	N	1-(4-trifluoromethylphenyl)-3-piperidyl
464	Me	N	1-(3,5-difluorophenyl)-3-piperidyl
465	Me	N	1-(2-difluoromethoxyphenyl)-3-piperidyl
466	Me	N	1-(3-difluoromethoxyphenyl)-3-piperidyl
467	Me	N	1-(4-difluoromethoxyphenyl)-3-piperidyl
468	Me	N	1-(2-pyridyl)-3-piperidyl
469	Me	N	1-(3-pyridyl)-3-piperidyl
470	Me	N	1-(4-pyridyl)-3-piperidyl
471	Me	N	1-phenyl-4-piperidyl
472	Me	N	1-(2-fluorophenyl)-4-piperidyl
473	Me	N	1-(3-fluorophenyl)-4-piperidyl
474	Me	N	1-(4-fluorophenyl)-4-piperidyl
475	Me	N	1-(2-chlorophenyl)-4-piperidyl
476	Me	N	1-(3-chlorophenyl)-4-piperidyl
477	Me	N	1-(4-chlorophenyl)-4-piperidyl
478	Me	N	1-(2-methylphenyl)-4-piperidyl
479	Me	N	1-(3-methylphenyl)-4-piperidyl
480	Me	N	1-(4-methylphenyl)-4-piperidyl
481	Me	N	1-(2-methoxyphenyl)-4-piperidyl
482	Me	N	1-(3-methoxyphenyl)-4-piperidyl
483	Me	N	1-(4-methoxyphenyl)-4-piperidyl
484	Me	N	1-(2-trifluoromethylphenyl)-4-piperidyl
485	Me	N	1-(3-trifluoromethylphenyl)-4-piperidyl
486	Me	N	1-(4-trifluoromethylphenyl)-4-piperidyl
487	Me	N	1-(3,5-difluorophenyl)-4-piperidyl
488	Me	N	1-(2-difluoromethoxyphenyl)-4-piperidyl
489	Me	N	1-(3-difluoromethoxyphenyl)-4-piperidyl
490	Me	N	1-(4-difluoromethoxyphenyl)-4-piperidyl
491	Me	N	1-(2-pyridyl)-4-piperidyl
492	Me	N	1-(3-pyridyl)-4-piperidyl
493	Me	N	1-(4-pyridyl)-4-piperidyl
494	Me	N	3-hydroxymethyl-1-phenyl-4-piperidyl
495	Me	N	3-methoxycarbonyl-1-phenyl-4-piperidyl
496	Me	N	3-ethoxycarbonyl-1-phenyl-4-piperidyl
497	Me	N	3-isopropoxycarbonyl-1-phenyl-4-piperidyl
498	Me	N	4-phenylcyclohexyl
499	Me	N	4-(2-fluorophenyl)cyclohexyl
500	Me	N	4-(3-fluorophenyl)cyclohexyl

(continued from Table 1)

501	Me	N	4-(4-fluorophenyl)cyclohexyl
502	Me	N	4-(2-chlorophenyl)cyclohexyl
503	Me	N	4-(3-chlorophenyl)cyclohexyl
504	Me	N	4-(4-chlorophenyl)cyclohexyl
505	Me	N	4-(2-methylphenyl)cyclohexyl
506	Me	N	4-(3-methylphenyl)cyclohexyl
507	Me	N	4-(4-methylphenyl)cyclohexyl
508	Me	N	4-(2-methoxyphenyl)cyclohexyl
509	Me	N	4-(3-methoxyphenyl)cyclohexyl
510	Me	N	4-(4-methoxyphenyl)cyclohexyl
511	Me	N	4-(2-trifluoromethylphenyl)cyclohexyl
512	Me	N	4-(3-trifluoromethylphenyl)cyclohexyl
513	Me	N	4-(4-trifluoromethylphenyl)cyclohexyl
514	Me	N	4-(3,5-difluorophenyl)cyclohexyl
515	Me	N	4-(3-acetylphenyl)cyclohexyl
516	Me	N	4-(3-cyanophenyl)cyclohexyl
517	Me	N	4-(2-difluoromethoxyphenyl)cyclohexyl
518	Me	N	4-(3-difluoromethoxyphenyl)cyclohexyl
519	Me	N	4-(4-difluoromethoxyphenyl)cyclohexyl
520	Me	N	4-(2-pyridyl)cyclohexyl
521	Me	N	4-(3-pyridyl)cyclohexyl
522	Me	N	4-(4-pyridyl)cyclohexyl
523	Me	N	4-(4-fluoro-3-pyridyl)cyclohexyl
524	Me	N	4-(3-quinolyl)cyclohexyl
525	Me	N	4-(3-fluorophenyl)-4-hydroxycyclohexyl
526	Me	N	3-phenylcyclohexyl
527	Me	N	3-phenylcyclopentyl
528	Me	N	6-phenyl-3-tetrahydropyranyl
529	Me	N	6-(3-fluorophenyl)-3-tetrahydropyranyl
530	Me	N	2-phenylcyclopropyl
531	Me	N	2-(2-pyridyl)cyclopropyl
532	Me	N	2-(3-pyridyl)cyclopropyl
533	Me	N	2-(4-pyridyl)cyclopropyl
534	Me	N	2-(3-fluorophenyl)cyclopropyl
535	Me	N	2-indanyl
536	Me	N	2-tetrahydronaphthyl
537	Me	N	6-methoxy-2-tetrahydronaphthyl
538	Me	N	benzyl
539	Me	N	phenethyl
540	Me	N	3-phenylpropyl

(continued from Table 1)

541	Me	N	4-phenylbutyl
542	Me	N	2-methoxyphenethyl
543	Me	N	3-methoxyphenethyl
544	Me	N	4-methoxyphenethyl
545	Me	N	4-fluorophenethyl
546	Me	N	4-bromophenethyl
547	Me	N	4-chlorophenethyl
548	Me	N	3-trifluoromethylphenethyl
549	Me	N	3,4-dimethoxyphenethyl
550	Me	N	3-propoxyphenethyl
551	Me	N	3,5-difluorophenethyl
552	Me	N	4-dimethylaminophenethyl
553	Me	N	3-difluoromethoxyphenethyl
554	Me	N	2-methylphenethyl
555	Me	N	4-acetylphenethyl
556	Me	N	4-dimethylamino-2-methoxyphenethyl
557	Me	N	cyclohexylethyl
558	Me	N	2-(2-pyridyl)ethyl
559	Me	N	2-(3-pyridyl)ethyl
560	Me	N	2-(4-pyridyl)ethyl
561	Me	N	2-(2-quinolyl)ethyl
562	Me	N	2-(3-quinolyl)ethyl
563	Me	N	2-(4-quinolyl)ethyl
564	Me	N	2-(6-quinolyl)ethyl
565	Me	N	2-(2-indolyl)ethyl
566	Me	N	2-(3-indolyl)ethyl
567	Me	N	2-(7-aza-3-indolyl)ethyl
568	Me	N	2-(benzimidazolyl)ethyl
569	Me	N	2-(benzoxazolyl)ethyl
570	Me	N	2-(benzothiazolyl)ethyl
571	Me	N	2-(1-naphthyl)ethyl
572	Me	N	2-(2-naphthyl)ethyl
573	Me	N	1-(hydroxymethyl)-2-phenylethyl
574	Me	N	1-(methoxycarbonyl)-2-phenylethyl
575	Me	N	1-(ethoxycarbonyl)-2-phenylethyl
576	Me	N	1-carboxy-2-phenylethyl
577	Me	N	1-(benzyloxycarbonyl)-2-phenylethyl
578	Me	N	1-(phenoxymethyl)-2-phenylethyl
579	Me	N	1-(benzyloxymethyl)-2-phenylethyl
580	Me	N	1-(benzylcarbamoyl)-2-phenylethyl

(continued from Table 1)

581	Me	N	1-(N-methylbenzylcarbamoyl)-2-phenylethyl
582	Me	N	1-(phenylcarbamoyl)-2-phenylethyl
583	Me	N	1-(N-methylphenylcarbamoyl)-2-phenylethyl
584	Me	N	1-(N-benzylaminomethyl)-2-phenylethyl
585	Me	N	1-(N-benzyl-N-methylaminomethyl)-2-phenylethyl
586	Me	N	1-(anilinomethyl)-2-phenylethyl
587	Me	N	1-(N-methylanilinomethyl)-2-phenylethyl
588	Me	N	1-(N-methylaminomethyl)-2-phenylethyl
589	Me	N	1-(N-ethylaminomethyl)-2-phenylethyl
590	Me	N	1-(N-isobutylaminomethyl)-2-phenylethyl
591	Me	N	1-(N-cyclopropylmethylaminomethyl)-2-phenylethyl
592	Me	N	1-(aminomethyl)-2-phenylethyl
593	Me	N	1-benzyl-2-(2-pyridylmethylamino)ethyl
594	Me	N	1-benzyl-2-(3-pyridylmethylamino)ethyl
595	Me	N	1-benzyl-2-(4-pyridylmethylamino)ethyl
596	Me	N	2-phenyl-1-(2-pyridylmethylcarbamoyl)ethyl
597	Me	N	2-phenyl-1-(3-pyridylmethylcarbamoyl)ethyl
598	Me	N	2-phenyl-1-(4-pyridylmethylcarbamoyl)ethyl
599	Me	N	2-hydroxy-2-phenylethyl
600	Me	N	benzoylmethyl
601	Me	N	1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl
602	Me	N	1-(benzyloxycarbonyl)-2-cyclohexylethyl
603	Me	N	1-(phenoxymethyl)-2-(3-indolyl)ethyl
604	Me	N	2-(2-methoxyphenoxy)ethyl
605	Me	N	1-(benzylcarbamoyl)-2-cyclohexylethyl
606	Me	N	1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl
607	Me	N	1-(phenylcarbamoyl)-2-cyclohexylethyl
608	Me	N	1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
609	Me	N	1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl
610	Me	N	1-(benzylaminomethyl)-2-(3-pyridyl)ethyl
611	Me	N	1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl
612	Me	N	1-(4-pyridylmethylcarbamoyl)-2-(4-fluorophenyl)ethyl
613	Me	N	1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
614	Me	N	1-(benzyloxymethyl)-2-(2-indolyl)ethyl
615	Me	N	1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl
616	Me	N	1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
617	Me	N	2-hydroxy-2-(4-dimethylaminophenyl)ethyl
618	Me	N	2-hydroxy-2-(2-quinolyl)ethyl
619	Me	N	2-hydroxy-2-(3-quinolyl)ethyl
620	Me	N	2-hydroxy-2-(4-quinolyl)ethyl

(continued from Table 1)

621	Me	N	2-hydroxy-2-(3,5-difluorophenyl)ethyl
622	Me	N	1-carboxy-2-cyclohexylethyl
623	Me	N	2-hydroxy-2-(6-quinolyl)ethyl
624	Me	N	2-(benzylamino)-2-phenylethyl
625	Me	N	2-amino-2-(2-naphthyl)propyl
626	Me	N	2-(phenylamino)ethyl
627	Me	N	diphenylmethyl
628	Me	N	2,2-diphenylethyl
629	Me	N	2-phenyl-2-(2-pyridyl)ethyl
630	Me	N	2-phenyl-2-(3-pyridyl)ethyl
631	Me	N	2-phenyl-2-(4-pyridyl)ethyl
632	Me	N	2-phenoxy-2-phenylethyl
633	Me	N	2-(benzyloxy)-2-phenylethyl
634	Et	N	1-phenyl-3-pyrrolidinyl
635	Et	N	1-(2-fluorophenyl)-3-pyrrolidinyl
636	Et	N	1-(3-fluorophenyl)-3-pyrrolidinyl
637	Et	N	1-(4-fluorophenyl)-3-pyrrolidinyl
638	Et	N	1-(2-chlorophenyl)-3-pyrrolidinyl
639	Et	N	1-(3-chlorophenyl)-3-pyrrolidinyl
640	Et	N	1-(4-chlorophenyl)-3-pyrrolidinyl
641	Et	N	1-(2-methylphenyl)-3-pyrrolidinyl
642	Et	N	1-(3-methylphenyl)-3-pyrrolidinyl
643	Et	N	1-(4-methylphenyl)-3-pyrrolidinyl
644	Et	N	1-(2-methoxyphenyl)-3-pyrrolidinyl
645	Et	N	1-(3-methoxyphenyl)-3-pyrrolidinyl
646	Et	N	1-(4-methoxyphenyl)-3-pyrrolidinyl
647	Et	N	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
648	Et	N	1-(3-trifluoromethylphenyl)-3-pyrrolidinyl
649	Et	N	1-(4-trifluoromethylphenyl)-3-pyrrolidinyl
650	Et	N	1-(3,5-difluorophenyl)-3-pyrrolidinyl
651	Et	N	1-(2-difluoromethoxyphenyl)-3-pyrrolidinyl
652	Et	N	1-(3-difluoromethoxyphenyl)-3-pyrrolidinyl
653	Et	N	1-(4-difluoromethoxyphenyl)-3-pyrrolidinyl
654	Et	N	1-(2-pyridyl)-3-pyrrolidinyl
655	Et	N	1-(3-pyridyl)-3-pyrrolidinyl
656	Et	N	1-(4-pyridyl)-3-pyrrolidinyl
657	Et	N	1-(2-pyrimidinyl)-3-pyrrolidinyl
658	Et	N	5-oxo-1-phenyl-3-pyrrolidinyl
659	Et	N	1-phenyl-3-piperidyl
660	Et	N	1-(2-fluorophenyl)-3-piperidyl

(continued from Table 1)

661	Et	N	1-(3-fluorophenyl)-3-piperidyl
662	Et	N	1-(4-fluorophenyl)-3-piperidyl
663	Et	N	1-(2-chlorophenyl)-3-piperidyl
664	Et	N	1-(3-chlorophenyl)-3-piperidyl
665	Et	N	1-(4-chlorophenyl)-3-piperidyl
666	Et	N	1-(2-methylphenyl)-3-piperidyl
667	Et	N	1-(3-methylphenyl)-3-piperidyl
668	Et	N	1-(4-methylphenyl)-3-piperidyl
669	Et	N	1-(2-methoxyphenyl)-3-piperidyl
670	Et	N	1-(3-methoxyphenyl)-3-piperidyl
671	Et	N	1-(4-methoxyphenyl)-3-piperidyl
672	Et	N	1-(2-trifluoromethylphenyl)-3-piperidyl
673	Et	N	1-(3-trifluoromethylphenyl)-3-piperidyl
674	Et	N	1-(4-trifluoromethylphenyl)-3-piperidyl
675	Et	N	1-(3,5-difluorophenyl)-3-piperidyl
676	Et	N	1-(2-difluoromethoxyphenyl)-3-piperidyl
677	Et	N	1-(3-difluoromethoxyphenyl)-3-piperidyl
678	Et	N	1-(4-difluoromethoxyphenyl)-3-piperidyl
679	Et	N	1-(2-pyridyl)-3-piperidyl
680	Et	N	1-(3-pyridyl)-3-piperidyl
681	Et	N	1-(4-pyridyl)-3-piperidyl
682	Et	N	1-phenyl-4-piperidyl
683	Et	N	1-(2-fluorophenyl)-4-piperidyl
684	Et	N	1-(3-fluorophenyl)-4-piperidyl
685	Et	N	1-(4-fluorophenyl)-4-piperidyl
686	Et	N	1-(2-chlorophenyl)-4-piperidyl
687	Et	N	1-(3-chlorophenyl)-4-piperidyl
688	Et	N	1-(4-chlorophenyl)-4-piperidyl
689	Et	N	1-(2-methylphenyl)-4-piperidyl
690	Et	N	1-(3-methylphenyl)-4-piperidyl
691	Et	N	1-(4-methylphenyl)-4-piperidyl
692	Et	N	1-(2-methoxyphenyl)-4-piperidyl
693	Et	N	1-(3-methoxyphenyl)-4-piperidyl
694	Et	N	1-(4-methoxyphenyl)-4-piperidyl
695	Et	N	1-(2-trifluoromethylphenyl)-4-piperidyl
696	Et	N	1-(3-trifluoromethylphenyl)-4-piperidyl
697	Et	N	1-(4-trifluoromethylphenyl)-4-piperidyl
698	Et	N	1-(3,5-difluorophenyl)-4-piperidyl
699	Et	N	1-(2-difluoromethoxyphenyl)-4-piperidyl
700	Et	N	1-(3-difluoromethoxyphenyl)-4-piperidyl

(continued from Table 1)

701	Et	N	1-(4-difluoromethoxyphenyl)-4-piperidyl
702	Et	N	1-(2-pyridyl)-4-piperidyl
703	Et	N	1-(3-pyridyl)-4-piperidyl
704	Et	N	1-(4-pyridyl)-4-piperidyl
705	Et	N	3-hydroxymethyl-1-phenyl-4-piperidyl
706	Et	N	3-methoxycarbonyl-1-phenyl-4-piperidyl
707	Et	N	3-ethoxycarbonyl-1-phenyl-4-piperidyl
708	Et	N	3-isopropoxycarbonyl-1-phenyl-4-piperidyl
709	Et	N	4-phenylcyclohexyl
710	Et	N	4-(2-fluorophenyl)cyclohexyl
711	Et	N	4-(3-fluorophenyl)cyclohexyl
712	Et	N	4-(4-fluorophenyl)cyclohexyl
713	Et	N	4-(2-chlorophenyl)cyclohexyl
714	Et	N	4-(3-chlorophenyl)cyclohexyl
715	Et	N	4-(4-chlorophenyl)cyclohexyl
716	Et	N	4-(2-methylphenyl)cyclohexyl
717	Et	N	4-(3-methylphenyl)cyclohexyl
718	Et	N	4-(4-methylphenyl)cyclohexyl
719	Et	N	4-(2-methoxyphenyl)cyclohexyl
720	Et	N	4-(3-methoxyphenyl)cyclohexyl
721	Et	N	4-(4-methoxyphenyl)cyclohexyl
722	Et	N	4-(2-trifluoromethylphenyl)cyclohexyl
723	Et	N	4-(3-trifluoromethylphenyl)cyclohexyl
724	Et	N	4-(4-trifluoromethylphenyl)cyclohexyl
725	Et	N	4-(3,5-difluorophenyl)cyclohexyl
726	Et	N	4-(3-acetylphenyl)cyclohexyl
727	Et	N	4-(3-cyanophenyl)cyclohexyl
728	Et	N	4-(2-difluoromethoxyphenyl)cyclohexyl
729	Et	N	4-(3-difluoromethoxyphenyl)cyclohexyl
730	Et	N	4-(4-difluoromethoxyphenyl)cyclohexyl
731	Et	N	4-(2-pyridyl)cyclohexyl
732	Et	N	4-(3-pyridyl)cyclohexyl
733	Et	N	4-(4-pyridyl)cyclohexyl
734	Et	N	4-(4-fluoro-3-pyridyl)cyclohexyl
735	Et	N	4-(3-quinolyl)cyclohexyl
736	Et	N	4-(3-fluorophenyl)-4-hydroxycyclohexyl
737	Et	N	3-phenylcyclohexyl
738	Et	N	3-phenylcyclopentyl
739	Et	N	6-phenyl-3-tetrahydropyranyl
740	Et	N	6-(3-fluorophenyl)-3-tetrahydropyranyl

(continued from Table 1)

741	Et	N	2-phenylcyclopropyl
742	Et	N	2-(2-pyridyl)cyclopropyl
743	Et	N	2-(3-pyridyl)cyclopropyl
744	Et	N	2-(4-pyridyl)cyclopropyl
745	Et	N	2-(3-fluorophenyl)cyclopropyl
746	Et	N	2-indanyl
747	Et	N	2-tetrahydronaphthyl
748	Et	N	6-methoxy-2-tetrahydronaphthyl
749	Et	N	benzyl
750	Et	N	phenethyl
751	Et	N	3-phenylpropyl
752	Et	N	4-phenylbutyl
753	Et	N	2-methoxyphenethyl
754	Et	N	3-methoxyphenethyl
755	Et	N	4-methoxyphenethyl
756	Et	N	4-fluorophenethyl
757	Et	N	4-bromophenethyl
758	Et	N	4-chlorophenethyl
759	Et	N	3-trifluoromethylphenethyl
760	Et	N	3,4-dimethoxyphenethyl
761	Et	N	3-propoxyphenethyl
762	Et	N	3,5-difluorophenethyl
763	Et	N	4-dimethylaminophenethyl
764	Et	N	3-difluoromethoxyphenethyl
765	Et	N	2-methylphenethyl
766	Et	N	4-acetylphenethyl
767	Et	N	4-dimethylamino-2-methoxyphenethyl
768	Et	N	cyclohexylethyl
769	Et	N	2-(2-pyridyl)ethyl
770	Et	N	2-(3-pyridyl)ethyl
771	Et	N	2-(4-pyridyl)ethyl
772	Et	N	2-(2-quinolyl)ethyl
773	Et	N	2-(3-quinolyl)ethyl
774	Et	N	2-(4-quinolyl)ethyl
775	Et	N	2-(6-quinolyl)ethyl
776	Et	N	2-(2-indolyl)ethyl
777	Et	N	2-(3-indolyl)ethyl
778	Et	N	2-(7-aza-3-indolyl)ethyl
779	Et	N	2-(benzimidazolyl)ethyl
780	Et	N	2-(benzoxazolyl)ethyl

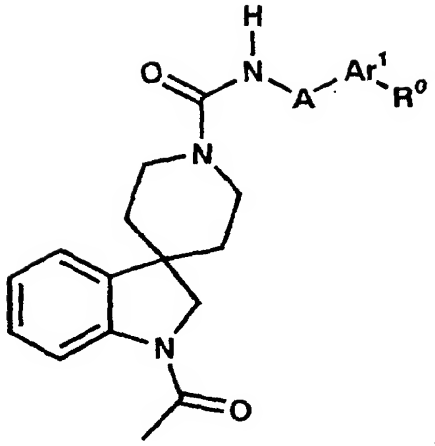
(continued from Table 1)

781	Et	N	2-(benzothiazolyl)ethyl
782	Et	N	2-(1-naphthyl)ethyl
783	Et	N	2-(2-naphthyl)ethyl
784	Et	N	1-(hydroxymethyl)-2-phenylethyl
785	Et	N	1-(methoxycarbonyl)-2-phenylethyl
786	Et	N	1-(ethoxycarbonyl)-2-phenylethyl
787	Et	N	1-carboxy-2-phenylethyl
788	Et	N	1-(benzyloxycarbonyl)-2-phenylethyl
789	Et	N	1-(phenoxymethyl)-2-phenylethyl
790	Et	N	1-(benzyloxymethyl)-2-phenylethyl
791	Et	N	1-(benzylcarbamoyl)-2-phenylethyl
792	Et	N	1-(N-methylbenzylcarbamoyl)-2-phenylethyl
793	Et	N	1-(phenylcarbamoyl)-2-phenylethyl
794	Et	N	1-(N-methylphenylcarbamoyl)-2-phenylethyl
795	Et	N	1-(N-benzylaminomethyl)-2-phenylethyl
796	Et	N	1-(N-benzyl-N-methylaminomethyl)-2-phenylethyl
797	Et	N	1-(anilinomethyl)-2-phenylethyl
798	Et	N	1-(N-methylanilinomethyl)-2-phenylethyl
799	Et	N	1-(N-methylaminomethyl)-2-phenylethyl
800	Et	N	1-(N-ethylaminomethyl)-2-phenylethyl
801	Et	N	1-(N-isobutylaminomethyl)-2-phenylethyl
802	Et	N	1-(N-cyclopropylmethylaminomethyl)-2-phenylethyl
803	Et	N	1-(aminomethyl)-2-phenylethyl
804	Et	N	1-benzyl-2-(2-pyridylmethylamino)ethyl
805	Et	N	1-benzyl-2-(3-pyridylmethylamino)ethyl
806	Et	N	1-benzyl-2-(4-pyridylmethylamino)ethyl
807	Et	N	2-phenyl-1-(2-pyridylmethylcarbamoyl)ethyl
808	Et	N	2-phenyl-1-(3-pyridylmethylcarbamoyl)ethyl
809	Et	N	2-phenyl-1-(4-pyridylmethylcarbamoyl)ethyl
810	Et	N	2-hydroxy-2-phenylethyl
811	Et	N	benzoylmethyl
812	Et	N	1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl
813	Et	N	1-(benzyloxycarbonyl)-2-cyclohexylethyl
814	Et	N	1-(phenoxymethyl)-2-(3-indolyl)ethyl
815	Et	N	2-(2-methoxyphenoxy)ethyl
816	Et	N	1-(benzylcarbamoyl)-2-cyclohexylethyl
817	Et	N	1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl
818	Et	N	1-(phenylcarbamoyl)-2-cyclohexylethyl
819	Et	N	1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
820	Et	N	1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl

(continued from Table 1)

821	Et	N	1-(benzylaminomethyl)-2-(3-pyridyl)ethyl
822	Et	N	1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl
823	Et	N	1-(4-pyridylmethylcarbamoyl)-2-(4-fluoro-phenyl)ethyl
824	Et	N	1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
825	Et	N	1-(benzyloxymethyl)-2-(2-indolyl)ethyl
826	Et	N	1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl
827	Et	N	1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
828	Et	N	2-hydroxy-2-(4-dimethylaminophenyl)ethyl
829	Et	N	2-hydroxy-2-(2-quinolyl)ethyl
830	Et	N	2-hydroxy-2-(3-quinolyl)ethyl
831	Et	N	2-hydroxy-2-(4-quinolyl)ethyl
832	Et	N	2-hydroxy-2-(3,5-difluorophenyl)ethyl
833	Et	N	1-carboxy-2-cyclohexylethyl
834	Et	N	2-hydroxy-2-(6-quinolyl)ethyl
835	Et	N	2-(benzylamino)-2-phenylethyl
836	Et	N	2-amino-2-(2-naphthyl)propyl
837	Et	N	2-(phenylamino)ethyl
838	Et	N	diphenylmethyl
839	Et	N	2,2-diphenylethyl
840	Et	N	2-phenyl-2-(2-pyridyl)ethyl
841	Et	N	2-phenyl-2-(3-pyridyl)ethyl
842	Et	N	2-phenyl-2-(4-pyridyl)ethyl
843	Et	N	2-phenoxy-2-phenylethyl
844	Et	N	2-(benzyloxy)-2-phenylethyl

Table 2



No.	A-Ar^1-R^0
845	1-phenyl-3-pyrrolidinyl
846	1-(2-fluorophenyl)-3-pyrrolidinyl
847	1-(3-fluorophenyl)-3-pyrrolidinyl
848	1-(4-fluorophenyl)-3-pyrrolidinyl
849	1-(2-chlorophenyl)-3-pyrrolidinyl
850	1-(3-chlorophenyl)-3-pyrrolidinyl
851	1-(4-chlorophenyl)-3-pyrrolidinyl
852	1-(2-methylphenyl)-3-pyrrolidinyl
853	1-(3-methylphenyl)-3-pyrrolidinyl
854	1-(4-methylphenyl)-3-pyrrolidinyl
855	1-(2-methoxphenyl)-3-pyrrolidinyl
856	1-(3-methylphenyl)-3-pyrrolidinyl
857	1-(4-methylphenyl)-3-pyrrolidinyl
858	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
859	1-(3-trifluoromethylphenyl)-3-pyrrolidinyl
860	1-(4-trifluoromethylphenyl)-3-pyrrolidinyl

(continued from Table 2)

861 1-(3,5-difluorophenyl)-3-pyrrolidinyl
862 1-(2-difluoromethoxyphenyl)-3-pyrrolidinyl
863 1-(3-difluoromethoxyphenyl)-3-pyrrolidinyl
864 1-(4-difluoromethoxyphenyl)-3-pyrrolidinyl
865 1-(2-pyridyl)-3-pyrrolidinyl
866 1-(3-pyridyl)-3-pyrrolidinyl
867 1-(4-pyridyl)-3-pyrrolidinyl
868 1-(2-pyrimidinyl)-3-pyrrolidinyl
869 5-oxo-1-phenyl-3-pyrrolidinyl
870 1-phenyl-3-piperidyl
871 1-(2-fluorophenyl)-3-piperidyl
872 1-(3-fluorophenyl)-3-piperidyl
873 1-(4-fluorophenyl)-3-piperidyl
874 1-(2-chlorophenyl)-3-piperidyl
875 1-(3-chlorophenyl)-3-piperidyl
876 1-(4-chlorophenyl)-3-piperidyl
877 1-(2-methylphenyl)-3-piperidyl
878 1-(3-methylphenyl)-3-piperidyl
879 1-(4-methylphenyl)-3-piperidyl
880 1-(2-methoxyphenyl)-3-piperidyl
881 1-(3-methoxyphenyl)-3-piperidyl
882 1-(4-methoxyphenyl)-3-piperidyl
883 1-(2-trifluoromethylphenyl)-3-piperidyl
884 1-(3-trifluoromethylphenyl)-3-piperidyl
885 1-(4-trifluoromethylphenyl)-3-piperidyl
886 1-(3,5-difluorophenyl)-3-piperidyl
887 1-(2-difluoromethoxyphenyl)-3-piperidyl
888 1-(3-difluoromethoxyphenyl)-3-piperidyl
889 1-(4-difluoromethoxyphenyl)-3-piperidyl
890 1-(2-pyridyl)-3-piperidyl
891 1-(3-pyridyl)-3-piperidyl
892 1-(4-pyridyl)-3-piperidyl
893 1-phenyl-4-piperidyl
894 1-(2-fluorophenyl)-4-piperidyl
895 1-(3-fluorophenyl)-4-piperidyl
896 1-(4-fluorophenyl)-4-piperidyl
897 1-(2-chlorophenyl)-4-piperidyl
898 1-(3-chlorophenyl)-4-piperidyl
899 1-(4-chlorophenyl)-4-piperidyl
900 1-(2-methylphenyl)-4-piperidyl

(continued from Table 2)

901	1-(3-methylphenyl)-4-piperidyl
902	1-(4-methylphenyl)-4-piperidyl
903	1-(2-methoxyphenyl)-4-piperidyl
904	1-(3-methoxyphenyl)-4-piperidyl
905	1-(4-methoxyphenyl)-4-piperidyl
906	1-(2-trifluoromethylphenyl)-4-piperidyl
907	1-(3-trifluoromethylphenyl)-4-piperidyl
908	1-(4-trifluoromethylphenyl)-4-piperidyl
909	1-(3,5-difluorophenyl)-4-piperidyl
910	1-(2-difluoromethoxyphenyl)-4-piperidyl
911	1-(3-difluoromethoxyphenyl)-4-piperidyl
912	1-(4-difluoromethoxyphenyl)-4-piperidyl
913	1-(2-pyridyl)-4-piperidyl
914	1-(3-pyridyl)-4-piperidyl
915	1-(4-pyridyl)-4-piperidyl
916	3-hydroxymethyl-1-phenyl-4-piperidyl
917	3-methoxycarbonyl-1-phenyl-4-piperidyl
918	3-ethoxycarbonyl-1-phenyl-4-piperidyl
919	3-isopropoxycarbonyl-1-phenyl-4-piperidyl
920	4-phenylcyclohexyl
921	4-(2-fluorophenyl)cyclohexyl
922	4-(3-fluorophenyl)cyclohexyl
923	4-(4-fluorophenyl)cyclohexyl
924	4-(2-chlorophenyl)cyclohexyl
925	4-(3-chlorophenyl)cyclohexyl
926	4-(4-chlorophenyl)cyclohexyl
927	4-(2-methylphenyl)cyclohexyl
928	4-(3-methylphenyl)cyclohexyl
929	4-(4-methylphenyl)cyclohexyl
930	4-(2-methoxyphenyl)cyclohexyl
931	4-(3-methoxyphenyl)cyclohexyl
932	4-(4-methoxyphenyl)cyclohexyl
933	4-(2-trifluoromethylphenyl)cyclohexyl
934	4-(3-trifluoromethylphenyl)cyclohexyl
935	4-(4-trifluoromethylphenyl)cyclohexyl
936	4-(3,5-difluorophenyl)cyclohexyl
937	4-(3-acetylphenyl)cyclohexyl
938	4-(3-cyanophenyl)cyclohexyl
939	4-(2-difluoromethoxyphenyl)cyclohexyl
940	4-(3-difluoromethoxyphenyl)cyclohexyl

(continued from Table 2)

941 4-(4-difluoromethoxyphenyl)cyclohexyl
942 4-(2-pyridyl)cyclohexyl
943 4-(3-pyridyl)cyclohexyl
944 4-(4-pyridyl)cyclohexyl
945 4-(4-fluoro-3-pyridyl)cyclohexyl
946 4-(3-quinolyl)cyclohexyl
947 4-(3-fluorophenyl)-4-hydroxycyclohexyl
948 3-phenylcyclohexyl
949 3-phenylcyclopentyl
950 6-phenyl-3-tetrahydropyranyl
951 6-(3-fluorophenyl)-3-tetrahydropyranyl
952 2-phenylcyclopropyl
953 2-(2-pyridyl)cyclopropyl
954 2-(3-pyridyl)cyclopropyl
955 2-(4-pyridyl)cyclopropyl
956 2-(3-fluorophenyl)cyclopropyl
957 2-indanyl
958 2-tetrahydronaphthyl
959 6-methoxy-2-tetrahydronaphthyl
960 benzyl
961 phenethyl
962 3-phenylpropyl
963 4-phenylbutyl
964 2-methoxyphenethyl
965 3-methoxyphenethyl
966 4-methoxyphenethyl
967 4-fluorophenethyl
968 4-bromophenethyl
969 4-chlorophenethyl
970 3-trifluoromethylphenethyl
971 3,4-dimethoxyphenethyl
972 3-propoxyphenethyl
973 3,5-difluorophenethyl
974 4-dimethylaminophenethyl
975 3-difluoromethoxyphenethyl
976 2-methylphenethyl
977 4-acetylphenethyl
978 4-dimethylamino-2-methoxyphenethyl
979 cyclohexylethyl
980 2-(2-pyridyl)ethyl

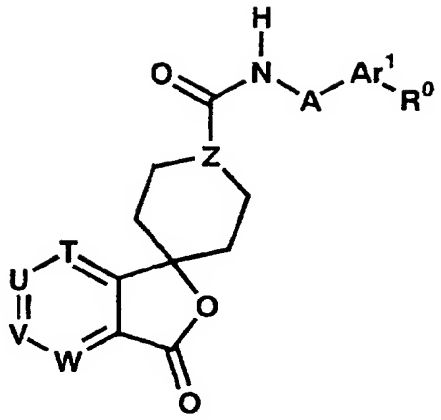
(continued from Table 2)

981 2-(3-pyridyl)ethyl
982 2-(4-pyridyl)ethyl
983 2-(2-quinolyl)ethyl
984 2-(3-quinolyl)ethyl
985 2-(4-quinolyl)ethyl
986 2-(6-quinolyl)ethyl
987 2-(2-indolyl)ethyl
988 2-(3-indolyl)ethyl
989 2-(7-aza-3-indolyl)ethyl
990 2-(benzimidazolyl)ethyl
991 2-(benzoxazolyl)ethyl
992 2-(benzothiazolyl)ethyl
993 2-(1-naphthyl)ethyl
994 2-(2-naphthyl)ethyl
995 1-(hydroxymethyl)-2-phenylethyl
996 1-(methoxycarbonyl)-2-phenylethyl
997 1-(ethoxycarbonyl)-2-phenylethyl
998 1-carboxy-2-phenylethyl
999 1-(benzyloxycarbonyl)-2-phenylethyl
1000 1-(phenoxymethyl)-2-phenylethyl
1001 1-(benzyloxymethyl)-2-phenylethyl
1002 1-(benzylcarbamoyl)-2-phenylethyl
1003 1-(N-methylbenzylcarbamoyl)-2-phenylethyl
1004 1-(phenylcarbamoyl)-2-phenylethyl
1005 1-(N-methylphenylcarbamoyl)-2-phenylethyl
1006 1-(N-benzylaminomethyl)-2-phenylethyl
1007 1-(N-benzyl-N-methylaminomethyl)-2-phenylethyl
1008 1-(anilinomethyl)-2-phenylethyl
1009 1-(N-methylanilinomethyl)-2-phenylethyl
1010 1-(N-methylaminomethyl)-2-phenylethyl
1011 1-(N-ethylaminomethyl)-2-phenylethyl
1012 1-(N-isobutylaminomethyl)-2-phenylethyl
1013 1-(N-cyclopropylmethylaminomethyl)-2-phenylethyl
1014 1-(aminomethyl)-2-phenylethyl
1015 1-benzyl-2-(2-pyridylmethylamino)ethyl
1016 1-benzyl-2-(3-pyridylmethylamino)ethyl
1017 1-benzyl-2-(4-pyridylmethylamino)ethyl
1018 2-phenyl-1-(2-pyridylmethylcarbamoyl)ethyl
1019 2-phenyl-1-(3-pyridylmethylcarbamoyl)ethyl
1020 2-phenyl-1-(4-pyridylmethylcarbamoyl)ethyl

(continued from Table 2)

1021 2-hydroxy-2-phenylethyl
1022 benzoylmethyl
1023 1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl
1024 1-(benzyloxycarbonyl)-2-cyclohexylethyl
1025 1-(phenoxymethyl)-2-(3-indolyl)ethyl
1026 2-(2-methoxyphenoxy)ethyl
1027 1-(benzylcarbamoyl)-2-cyclohexylethyl
1028 1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl
1029 1-(phenylcarbamoyl)-2-cyclohexylethyl
1030 1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
1031 1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl
1032 1-(benzylaminomethyl)-2-(3-pyridyl)ethyl
1033 1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl
1034 1-(4-pyridylmethylcarbamoyl)-2-(4-fluorophenyl)ethyl
1035 1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
1036 1-(benzyloxymethyl)-2-(2-indolyl)ethyl
1037 1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl
1038 1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
1039 2-hydroxy-2-(4-dimethylaminophenyl)ethyl
1040 2-hydroxy-2-(2-quinolyl)ethyl
1041 2-hydroxy-2-(3-quinolyl)ethyl
1042 2-hydroxy-2-(4-quinolyl)ethyl
1043 2-hydroxy-2-(3,5-difluorophenyl)ethyl
1044 1-carboxy-2-cyclohexylethyl
1045 2-hydroxy-2-(6-quinolyl)ethyl
1046 2-(benzylamino)-2-phenylethyl
1047 2-amino-2-(2-naphthyl)propyl
1048 2-(phenylamino)ethyl
1049 diphenylmethyl
1050 2,2-diphenylethyl
1051 2-phenyl-2-(2-pyridyl)ethyl
1052 2-phenyl-2-(3-pyridyl)ethyl
1053 2-phenyl-2-(4-pyridyl)ethyl
1054 2-phenoxy-2-phenylethyl
1055 2-(benzyloxy)-2-phenylethyl

Table 3



No.	T	U	V	W	Z	A-Ar^1-R^0
1056	CH	CH	CH	CH	CH	1-phenyl-3-pyrrolidinyl
1057	CH	CH	CH	CH	CH	1-(2-fluorophenyl)-3-pyrrolidinyl
1058	CH	CH	CH	CH	CH	1-(3-fluorophenyl)-3-pyrrolidinyl
1059	CH	CH	CH	CH	CH	1-(4-fluorophenyl)-3-pyrrolidinyl
1060	CH	CH	CH	CH	CH	1-(2-chlorophenyl)-3-pyrrolidinyl
1061	CH	CH	CH	CH	CH	1-(3-chlorophenyl)-3-pyrrolidinyl
1062	CH	CH	CH	CH	CH	1-(4-chlorophenyl)-3-pyrrolidinyl
1063	CH	CH	CH	CH	CH	1-(2-methylphenyl)-3-pyrrolidinyl
1064	CH	CH	CH	CH	CH	1-(3-methylphenyl)-3-pyrrolidinyl
1065	CH	CH	CH	CH	CH	1-(4-methylphenyl)-3-pyrrolidinyl
1066	CH	CH	CH	CH	CH	1-(2-methoxyyphenyl)-3-pyrrolidinyl
1067	CH	CH	CH	CH	CH	1-(3-methoxyyphenyl)-3-pyrrolidinyl
1068	CH	CH	CH	CH	CH	1-(4-methoxyyphenyl)-3-pyrrolidinyl
1069	CH	CH	CH	CH	CH	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
1070	CH	CH	CH	CH	CH	1-(3-trifluoromethylphenyl)-3-pyrrolidinyl

(continued from Table 3)

1071	CH	CH	CH	CH	CH	1-(4-trifluoromethylphenyl)-3-pyrrolidinyl
1072	CH	CH	CH	CH	CH	1-(3,5-difluorophenyl)-3-pyrrolidinyl
1073	CH	CH	CH	CH	CH	1-(2-difluoromethoxyphenyl)-3-pyrrolidinyl
1074	CH	CH	CH	CH	CH	1-(3-difluoromethoxyphenyl)-3-pyrrolidinyl
1075	CH	CH	CH	CH	CH	1-(4-difluoromethoxyphenyl)-3-pyrrolidinyl
1076	CH	CH	CH	CH	CH	1-(2-pyridyl)-3-pyrrolidinyl
1077	CH	CH	CH	CH	CH	1-(3-pyridyl)-3-pyrrolidinyl
1078	CH	CH	CH	CH	CH	1-(4-pyridyl)-3-pyrrolidinyl
1079	CH	CH	CH	CH	CH	1-(2-pyrimidinyl)-3-pyrrolidinyl
1080	CH	CH	CH	CH	CH	5-oxo-1-phenyl-3-pyrrolidinyl
1081	CH	CH	CH	CH	CH	1-phenyl-3-piperidyl
1082	CH	CH	CH	CH	CH	1-(2-fluorophenyl)-3-piperidyl
1083	CH	CH	CH	CH	CH	1-(3-fluorophenyl)-3-piperidyl
1084	CH	CH	CH	CH	CH	1-(4-fluorophenyl)-3-piperidyl
1085	CH	CH	CH	CH	CH	1-(2-chlorophenyl)-3-piperidyl
1086	CH	CH	CH	CH	CH	1-(3-chlorophenyl)-3-piperidyl
1087	CH	CH	CH	CH	CH	1-(4-chlorophenyl)-3-piperidyl
1088	CH	CH	CH	CH	CH	1-(2-methylphenyl)-3-piperidyl
1089	CH	CH	CH	CH	CH	1-(3-methylphenyl)-3-piperidyl
1090	CH	CH	CH	CH	CH	1-(4-methylphenyl)-3-piperidyl
1091	CH	CH	CH	CH	CH	1-(2-methoxyphenyl)-3-piperidyl
1092	CH	CH	CH	CH	CH	1-(3-methoxyphenyl)-3-piperidyl
1093	CH	CH	CH	CH	CH	1-(4-methoxyphenyl)-3-piperidyl
1094	CH	CH	CH	CH	CH	1-(2-trifluoromethylphenyl)-3-piperidyl
1095	CH	CH	CH	CH	CH	1-(3-trifluoromethylphenyl)-3-piperidyl
1096	CH	CH	CH	CH	CH	1-(4-trifluoromethylphenyl)-3-piperidyl
1097	CH	CH	CH	CH	CH	1-(3,5-difluorophenyl)-3-piperidyl
1098	CH	CH	CH	CH	CH	1-(2-difluoromethoxyphenyl)-3-piperidyl
1099	CH	CH	CH	CH	CH	1-(3-difluoromethoxyphenyl)-3-piperidyl
1100	CH	CH	CH	CH	CH	1-(4-difluoromethoxyphenyl)-3-piperidyl
1101	CH	CH	CH	CH	CH	1-(2-pyridyl)-3-piperidyl
1102	CH	CH	CH	CH	CH	1-(3-pyridyl)-3-piperidyl

(continued from Table 3)

1103	CH	CH	CH	CH	CH	1-(4-pyridyl)-3-piperidyl
1104	CH	CH	CH	CH	CH	1-phenyl-4-piperidyl
1105	CH	CH	CH	CH	CH	1-(2-fluorophenyl)-4-piperidyl
1106	CH	CH	CH	CH	CH	1-(3-fluorophenyl)-4-piperidyl
1107	CH	CH	CH	CH	CH	1-(4-fluorophenyl)-4-piperidyl
1108	CH	CH	CH	CH	CH	1-(2-chlorophenyl)-4-piperidyl
1109	CH	CH	CH	CH	CH	1-(3-chlorophenyl)-4-piperidyl
1110	CH	CH	CH	CH	CH	1-(4-chlorophenyl)-4-piperidyl
1111	CH	CH	CH	CH	CH	1-(2-methylphenyl)-4-piperidyl
1112	CH	CH	CH	CH	CH	1-(3-methylphenyl)-4-piperidyl
1113	CH	CH	CH	CH	CH	1-(4-methylphenyl)-4-piperidyl
1114	CH	CH	CH	CH	CH	1-(2-methoxyphenyl)-4-piperidyl
1115	CH	CH	CH	CH	CH	1-(3-methoxyphenyl)-4-piperidyl
1116	CH	CH	CH	CH	CH	1-(4-methoxyphenyl)-4-piperidyl
1117	CH	CH	CH	CH	CH	1-(2-trifluoromethylphenyl)-4-piperidyl
1118	CH	CH	CH	CH	CH	1-(3-trifluoromethylphenyl)-4-piperidyl
1119	CH	CH	CH	CH	CH	1-(4-trifluoromethylphenyl)-4-piperidyl
1120	CH	CH	CH	CH	CH	1-(3,5-difluorophenyl)-4-piperidyl
1121	CH	CH	CH	CH	CH	1-(2-difluoromethoxyphenyl)-4-piperidyl
1122	CH	CH	CH	CH	CH	1-(3-difluoromethoxyphenyl)-4-piperidyl
1123	CH	CH	CH	CH	CH	1-(4-difluoromethoxyphenyl)-4-piperidyl
1124	CH	CH	CH	CH	CH	1-(2-pyridyl)-4-piperidyl
1125	CH	CH	CH	CH	CH	1-(3-pyridyl)-4-piperidyl
1126	CH	CH	CH	CH	CH	1-(4-pyridyl)-4-piperidyl
1127	CH	CH	CH	CH	CH	3-hydroxymethyl-1-phenyl-4-piperidyl
1128	CH	CH	CH	CH	CH	3-methoxycarbonyl-1-phenyl-4-piperidyl
1129	CH	CH	CH	CH	CH	3-ethoxycarbonyl-1-phenyl-4-piperidyl
1130	CH	CH	CH	CH	CH	3-isopropoxycarbonyl-1-phenyl-4-piperidyl
1131	CH	CH	CH	CH	CH	4-phenylcyclohexyl
1132	CH	CH	CH	CH	CH	4-(2-fluorophenyl)cyclohexyl
1133	CH	CH	CH	CH	CH	4-(3-fluorophenyl)cyclohexyl
1134	CH	CH	CH	CH	CH	4-(4-fluorophenyl)cyclohexyl
1135	CH	CH	CH	CH	CH	4-(2-chlorophenyl)cyclohexyl

(continued from Table 3)

1136	CH	CH	CH	CH	CH	4-(3-chlorophenyl)cyclohexyl
1137	CH	CH	CH	CH	CH	4-(4-chlorophenyl)cyclohexyl
1138	CH	CH	CH	CH	CH	4-(2-methylphenyl)cyclohexyl
1139	CH	CH	CH	CH	CH	4-(3-methylphenyl)cyclohexyl
1140	CH	CH	CH	CH	CH	4-(4-methylphenyl)cyclohexyl
1141	CH	CH	CH	CH	CH	4-(2-methoxyphenyl)cyclohexyl
1142	CH	CH	CH	CH	CH	4-(3-methoxyphenyl)cyclohexyl
1143	CH	CH	CH	CH	CH	4-(4-methoxyphenyl)cyclohexyl
1144	CH	CH	CH	CH	CH	4-(2-trifluoromethylphenyl)cyclohexyl
1145	CH	CH	CH	CH	CH	4-(3-trifluoromethylphenyl)cyclohexyl
1146	CH	CH	CH	CH	CH	4-(4-trifluoromethylphenyl)cyclohexyl
1147	CH	CH	CH	CH	CH	4-(3,5-difluorophenyl)cyclohexyl
1148	CH	CH	CH	CH	CH	4-(3-acetylphenyl)cyclohexyl
1149	CH	CH	CH	CH	CH	4-(3-cyanophenyl)cyclohexyl
1150	CH	CH	CH	CH	CH	4-(2-difluoromethoxyphenyl)cyclohexyl
1151	CH	CH	CH	CH	CH	4-(3-difluoromethoxyphenyl)cyclohexyl
1152	CH	CH	CH	CH	CH	4-(4-difluoromethoxyphenyl)cyclohexyl
1153	CH	CH	CH	CH	CH	4-(2-pyridyl)cyclohexyl
1154	CH	CH	CH	CH	CH	4-(3-pyridyl)cyclohexyl
1155	CH	CH	CH	CH	CH	4-(4-pyridyl)cyclohexyl
1156	CH	CH	CH	CH	CH	4-(4-fluoro-3-pyridyl)cyclohexyl
1157	CH	CH	CH	CH	CH	4-(3-quinolyl)cyclohexyl
1158	CH	CH	CH	CH	CH	4-(3-fluorophenyl)-4-hydroxy-cyclohexyl
1159	CH	CH	CH	CH	CH	3-phenylcyclohexyl
1160	CH	CH	CH	CH	CH	3-phenylcyclopentyl
1161	CH	CH	CH	CH	CH	6-phenyl-3-tetrhydropyranyl
1162	CH	CH	CH	CH	CH	6-(3-fluorophenyl)-3-tetrhydro-pyranyl
1163	CH	CH	CH	CH	CH	2-phenylcyclopropyl
1164	CH	CH	CH	CH	CH	2-(2-pyridyl)cyclopropyl
1165	CH	CH	CH	CH	CH	2-(3-pyridyl)cyclopropyl
1166	CH	CH	CH	CH	CH	2-(4-pyridyl)cyclopropyl
1167	CH	CH	CH	CH	CH	2-(3-fluorophenyl)cyclopropyl
1168	CH	CH	CH	CH	CH	2-indanyl
1169	CH	CH	CH	CH	CH	2-tetrahydronaphthyl

(continued from Table 3)

1170	CH	CH	CH	CH	CH	6-methoxy-2-tetrahydronaphthyl
1171	CH	CH	CH	CH	CH	benzyl
1172	CH	CH	CH	CH	CH	phenethyl
1173	CH	CH	CH	CH	CH	3-phenylpropyl
1174	CH	CH	CH	CH	CH	4-phenylbutyl
1175	CH	CH	CH	CH	CH	2-methoxyphenethyl
1176	CH	CH	CH	CH	CH	3-methoxyphenethyl
1177	CH	CH	CH	CH	CH	4-methoxyphenethyl
1178	CH	CH	CH	CH	CH	4-fluorophenethyl
1179	CH	CH	CH	CH	CH	4-bromophenethyl
1180	CH	CH	CH	CH	CH	4-chlorophenethyl
1181	CH	CH	CH	CH	CH	3-trifluoromethylphenethyl
1182	CH	CH	CH	CH	CH	3,4-dimethoxyphenethyl
1183	CH	CH	CH	CH	CH	3-propoxyphenethyl
1184	CH	CH	CH	CH	CH	3,5-difluorophenethyl
1185	CH	CH	CH	CH	CH	4-dimethylaminophenethyl
1186	CH	CH	CH	CH	CH	3-difluoromethoxyphenethyl
1187	CH	CH	CH	CH	CH	2-methylphenethyl
1188	CH	CH	CH	CH	CH	4-acetylphenethyl
1189	CH	CH	CH	CH	CH	4-dimethylamino-2-methoxyphenethyl
1190	CH	CH	CH	CH	CH	cyclohexylethyl
1191	CH	CH	CH	CH	CH	2-(2-pyridyl)ethyl
1192	CH	CH	CH	CH	CH	2-(3-pyridyl)ethyl
1193	CH	CH	CH	CH	CH	2-(4-pyridyl)ethyl
1194	CH	CH	CH	CH	CH	2-(2-quinolyl)ethyl
1195	CH	CH	CH	CH	CH	2-(3-quinolyl)ethyl
1196	CH	CH	CH	CH	CH	2-(4-quinolyl)ethyl
1197	CH	CH	CH	CH	CH	2-(6-quinolyl)ethyl
1198	CH	CH	CH	CH	CH	2-(2-indolyl)ethyl
1199	CH	CH	CH	CH	CH	2-(3-indolyl)ethyl
1200	CH	CH	CH	CH	CH	2-(7-aza-3-indolyl)ethyl
1201	CH	CH	CH	CH	CH	2-(benzimidazolyl)ethyl
1202	CH	CH	CH	CH	CH	2-(benzoxazolyl)ethyl
1203	CH	CH	CH	CH	CH	2-(benzothiazolyl)ethyl
1204	CH	CH	CH	CH	CH	2-(1-naphthyl)ethyl
1205	CH	CH	CH	CH	CH	2-(2-naphthyl)ethyl
1206	CH	CH	CH	CH	CH	1-(hydroxymethyl)-2-phenylethyl
1207	CH	CH	CH	CH	CH	1-(methoxycarbonyl)-2-phenylethyl
1208	CH	CH	CH	CH	CH	1-(ethoxycarbonyl)-2-phenylethyl
1209	CH	CH	CH	CH	CH	1-carboxy-2-phenylethyl

(continued from Table 3)

1210	CH	CH	CH	CH	CH	1-(benzyloxycarbonyl)-2-phenyl-ethyl
1211	CH	CH	CH	CH	CH	1-(phenoxymethyl)-2-phenylethyl
1212	CH	CH	CH	CH	CH	1-(benzyloxymethyl)-2-phenylethyl
1213	CH	CH	CH	CH	CH	1-(benzylcarbamoyl)-2-phenylethyl
1214	CH	CH	CH	CH	CH	1-(N-methylbenzylcarbamoyl)-2-phenylethyl
1215	CH	CH	CH	CH	CH	1-(phenylcarbamoyl)-2-phenylethyl
1216	CH	CH	CH	CH	CH	1-(N-methylphenylcarbamoyl)-2-phenylethyl
1217	CH	CH	CH	CH	CH	1-(N-benzylaminomethyl)-2-phenyl-ethyl
1218	CH	CH	CH	CH	CH	1-(N-benzyl-N-methylaminomethyl)-2-phenylethyl
1219	CH	CH	CH	CH	CH	1-(anilinomethyl)-2-phenylethyl
1220	CH	CH	CH	CH	CH	1-(N-methylanilinomethyl)-2-phenylethyl
1221	CH	CH	CH	CH	CH	1-(N-methylaminomethyl)-2-phenylethyl
1222	CH	CH	CH	CH	CH	1-(N-ethylaminomethyl)-2-phenylethyl
1223	CH	CH	CH	CH	CH	1-(N-isobutylaminomethyl)-2-phenylethyl
1224	CH	CH	CH	CH	CH	1-(N-cyclopropylmethylamino-methyl)-2-phenylethyl
1225	CH	CH	CH	CH	CH	1-(aminomethyl)-2-phenylethyl
1226	CH	CH	CH	CH	CH	1-benzyl-2-(2-pyridylmethyl-amino)ethyl
1227	CH	CH	CH	CH	CH	1-benzyl-2-(3-pyridylmethyl-amino)ethyl
1228	CH	CH	CH	CH	CH	1-benzyl-2-(4-pyridylmethyl-amino)ethyl
1229	CH	CH	CH	CH	CH	2-phenyl-1-(2-pyridylmethyl-carbamoyl)ethyl
1230	CH	CH	CH	CH	CH	2-phenyl-1-(3-pyridylmethyl-carbamoyl)ethyl
1231	CH	CH	CH	CH	CH	2-phenyl-1-(4-pyridylmethyl-carbamoyl)ethyl
1232	CH	CH	CH	CH	CH	2-hydroxy-2-phenylethyl
1233	CH	CH	CH	CH	CH	benzoylmethyl
1234	CH	CH	CH	CH	CH	1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl
1235	CH	CH	CH	CH	CH	1-(benzyloxycarbonyl)-2-cyclo-hexylethyl

(continued from Table 3)

1236	CH	CH	CH	CH	CH	1-(phenoxymethyl)-2-(3-indolyl)ethyl
1237	CH	CH	CH	CH	CH	2-(2-methoxyphenoxy)ethyl
1238	CH	CH	CH	CH	CH	1-(benzylcarbamoyl)-2-cyclohexyl-ethyl
1239	CH	CH	CH	CH	CH	1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl
1240	CH	CH	CH	CH	CH	1-(phenylcarbamoyl)-2-cyclohexyl-ethyl
1241	CH	CH	CH	CH	CH	1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
1242	CH	CH	CH	CH	CH	1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl
1243	CH	CH	CH	CH	CH	1-(benzylaminomethyl)-2-(3-pyridyl)ethyl
1244	CH	CH	CH	CH	CH	1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl
1245	CH	CH	CH	CH	CH	1-(4-pyridylmethylcarbamoyl)-2-(4-fluorophenyl)ethyl
1246	CH	CH	CH	CH	CH	1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
1247	CH	CH	CH	CH	CH	1-(benzyloxymethyl)-2-(2-indolyl)ethyl
1248	CH	CH	CH	CH	CH	1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl
1249	CH	CH	CH	CH	CH	1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
1250	CH	CH	CH	CH	CH	2-hydroxy-2-(4-dimethylamino-phenyl)ethyl
1251	CH	CH	CH	CH	CH	2-hydroxy-2-(2-quinolyl)ethyl
1252	CH	CH	CH	CH	CH	2-hydroxy-2-(3-quinolyl)ethyl
1253	CH	CH	CH	CH	CH	2-hydroxy-2-(4-quinolyl)ethyl
1254	CH	CH	CH	CH	CH	2-hydroxy-2-(3,5-difluoro-phenyl)ethyl
1255	CH	CH	CH	CH	CH	1-carboxy-2-cyclohexylethyl
1256	CH	CH	CH	CH	CH	2-hydroxy-2-(6-quinolyl)ethyl
1257	CH	CH	CH	CH	CH	2-(benzylamino)-2-phenylethyl
1258	CH	CH	CH	CH	CH	2-amino-2-(2-naphthyl)propyl
1259	CH	CH	CH	CH	CH	2-(phenylamino)ethyl
1260	CH	CH	CH	CH	CH	diphenylmethyl
1261	CH	CH	CH	CH	CH	2,2-diphenylethyl
1262	CH	CH	CH	CH	CH	2-phenyl-2-(2-pyridyl)ethyl
1263	CH	CH	CH	CH	CH	2-phenyl-2-(3-pyridyl)ethyl

(continued from Table 3)

1264	CH	CH	CH	CH	CH	2-phenyl-2-(4-pyridyl)ethyl
1265	CH	CH	CH	CH	CH	2-phenoxy-2-phenylethyl
1266	CH	CH	CH	CH	CH	2-(benzyloxy)-2-phenylethyl
1267	CH	CH	CH	CH	N	1-phenyl-3-pyrrolidinyl
1268	CH	CH	CH	CH	N	1-(2-fluorophenyl)-3-pyrrolidinyl
1269	CH	CH	CH	CH	N	1-(3-fluorophenyl)-3-pyrrolidinyl
1270	CH	CH	CH	CH	N	1-(4-fluorophenyl)-3-pyrrolidinyl
1271	CH	CH	CH	CH	N	1-(2-chlorophenyl)-3-pyrrolidinyl
1272	CH	CH	CH	CH	N	1-(3-chlorophenyl)-3-pyrrolidinyl
1273	CH	CH	CH	CH	N	1-(4-chlorophenyl)-3-pyrrolidinyl
1274	CH	CH	CH	CH	N	1-(2-methylphenyl)-3-pyrrolidinyl
1275	CH	CH	CH	CH	N	1-(3-methylphenyl)-3-pyrrolidinyl
1276	CH	CH	CH	CH	N	1-(4-methylphenyl)-3-pyrrolidinyl
1277	CH	CH	CH	CH	N	1-(2-methoxyphenyl)-3-pyrrolidinyl
1278	CH	CH	CH	CH	N	1-(3-methoxyphenyl)-3-pyrrolidinyl
1279	CH	CH	CH	CH	N	1-(4-methoxyphenyl)-3-pyrrolidinyl
1280	CH	CH	CH	CH	N	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
1281	CH	CH	CH	CH	N	1-(3-trifluromethylphenyl)-3-pyrrolidinyl
1282	CH	CH	CH	CH	N	1-(4-trifluromethylphenyl)-3-pyrrolidinyl
1283	CH	CH	CH	CH	N	1-(3,5-diflurophenyl)-3-pyrrolidinyl
1284	CH	CH	CH	CH	N	1-(2-difluromethoxyphenyl)-3-pyrrolidinyl
1285	CH	CH	CH	CH	N	1-(3-difluromethoxyphenyl)-3-pyrrolidinyl
1286	CH	CH	CH	CH	N	1-(4-difluromethoxyphenyl)-3-pyrrolidinyl
1287	CH	CH	CH	CH	N	1-(2-pyridyl)-3-pyrrolidinyl
1288	CH	CH	CH	CH	N	1-(3-pyridyl)-3-pyrrolidinyl
1289	CH	CH	CH	CH	N	1-(4-pyridyl)-3-pyrrolidinyl
1290	CH	CH	CH	CH	N	1-(2-pyrimidinyl)-3-pyrrolidinyl
1291	CH	CH	CH	CH	N	5-oxo-1-phenyl-3-pyrrolidinyl
1292	CH	CH	CH	CH	N	1-phenyl-3-piperidyl
1293	CH	CH	CH	CH	N	1-(2-fluorophenyl)-3-piperidyl
1294	CH	CH	CH	CH	N	1-(3-fluorophenyl)-3-piperidyl
1295	CH	CH	CH	CH	N	1-(4-fluorophenyl)-3-piperidyl
1296	CH	CH	CH	CH	N	1-(2-chlorophenyl)-3-piperidyl
1297	CH	CH	CH	CH	N	1-(3-chlorophenyl)-3-piperidyl

(continued from Table 3)

1298	CH	CH	CH	CH	N	1-(4-chlorophenyl)-3-piperidyl
1299	CH	CH	CH	CH	N	1-(2-methylphenyl)-3-piperidyl
1300	CH	CH	CH	CH	N	1-(3-methylphenyl)-3-piperidyl
1301	CH	CH	CH	CH	N	1-(4-methylphenyl)-3-piperidyl
1302	CH	CH	CH	CH	N	1-(2-methoxyphenyl)-3-piperidyl
1303	CH	CH	CH	CH	N	1-(3-methoxyphenyl)-3-piperidyl
1304	CH	CH	CH	CH	N	1-(4-methoxyphenyl)-3-piperidyl
1305	CH	CH	CH	CH	N	1-(2-trifluoromethylphenyl)-3-piperidyl
1306	CH	CH	CH	CH	N	1-(3-trifluoromethylphenyl)-3-piperidyl
1307	CH	CH	CH	CH	N	1-(4-trifluoromethylphenyl)-3-piperidyl
1308	CH	CH	CH	CH	N	1-(3,5-difluorophenyl)-3-piperidyl
1309	CH	CH	CH	CH	N	1-(2-difluoromethoxyphenyl)-3-piperidyl
1310	CH	CH	CH	CH	N	1-(3-difluoromethoxyphenyl)-3-piperidyl
1311	CH	CH	CH	CH	N	1-(4-difluoromethoxyphenyl)-3-piperidyl
1312	CH	CH	CH	CH	N	1-(2-pyridyl)-3-piperidyl
1313	CH	CH	CH	CH	N	1-(3-pyridyl)-3-piperidyl
1314	CH	CH	CH	CH	N	1-(4-pyridyl)-3-piperidyl
1315	CH	CH	CH	CH	N	1-phenyl-4-piperidyl
1316	CH	CH	CH	CH	N	1-(2-fluorophenyl)-4-piperidyl
1317	CH	CH	CH	CH	N	1-(3-fluorophenyl)-4-piperidyl
1318	CH	CH	CH	CH	N	1-(4-fluorophenyl)-4-piperidyl
1319	CH	CH	CH	CH	N	1-(2-chlorophenyl)-4-piperidyl
1320	CH	CH	CH	CH	N	1-(3-chlorophenyl)-4-piperidyl
1321	CH	CH	CH	CH	N	1-(4-chlorophenyl)-4-piperidyl
1322	CH	CH	CH	CH	N	1-(2-methylphenyl)-4-piperidyl
1323	CH	CH	CH	CH	N	1-(3-methylphenyl)-4-piperidyl
1324	CH	CH	CH	CH	N	1-(4-methylphenyl)-4-piperidyl
1325	CH	CH	CH	CH	N	1-(2-methoxyphenyl)-4-piperidyl
1326	CH	CH	CH	CH	N	1-(3-methoxyphenyl)-4-piperidyl
1327	CH	CH	CH	CH	N	1-(4-methoxyphenyl)-4-piperidyl
1328	CH	CH	CH	CH	N	1-(2-trifluoromethylphenyl)-4-piperidyl
1329	CH	CH	CH	CH	N	1-(3-trifluoromethylphenyl)-4-piperidyl
1330	CH	CH	CH	CH	N	1-(4-trifluoromethylphenyl)-4-piperidyl

(continued from Table 3)

1331	CH	CH	CH	CH	N	1-(3,5-difluorophenyl)-4-piperidyl
1332	CH	CH	CH	CH	N	1-(2-difluoromethoxyphenyl)-4-piperidyl
1333	CH	CH	CH	CH	N	1-(3-difluoromethoxyphenyl)-4-piperidyl
1334	CH	CH	CH	CH	N	1-(4-difluoromethoxyphenyl)-4-piperidyl
1335	CH	CH	CH	CH	N	1-(2-pyridyl)-4-piperidyl
1336	CH	CH	CH	CH	N	1-(3-pyridyl)-4-piperidyl
1337	CH	CH	CH	CH	N	1-(4-pyridyl)-4-piperidyl
1338	CH	CH	CH	CH	N	3-hydroxymethyl-1-phenyl-4-piperidyl
1339	CH	CH	CH	CH	N	3-methoxycarbonyl-1-phenyl-4-piperidyl
1340	CH	CH	CH	CH	N	3-ethoxycarbonyl-1-phenyl-4-piperidyl
1341	CH	CH	CH	CH	N	3-isopropoxycarbonyl-1-phenyl-4-piperidyl
1342	CH	CH	CH	CH	N	4-phenylcyclohexyl
1343	CH	CH	CH	CH	N	4-(2-fluorophenyl)cyclohexyl
1344	CH	CH	CH	CH	N	4-(3-fluorophenyl)cyclohexyl
1345	CH	CH	CH	CH	N	4-(4-fluorophenyl)cyclohexyl
1346	CH	CH	CH	CH	N	4-(2-chlorophenyl)cyclohexyl
1347	CH	CH	CH	CH	N	4-(3-chlorophenyl)cyclohexyl
1348	CH	CH	CH	CH	N	4-(4-chlorophenyl)cyclohexyl
1349	CH	CH	CH	CH	N	4-(2-methylphenyl)cyclohexyl
1350	CH	CH	CH	CH	N	4-(3-methylphenyl)cyclohexyl
1351	CH	CH	CH	CH	N	4-(4-methylphenyl)cyclohexyl
1352	CH	CH	CH	CH	N	4-(2-methoxyphenyl)cyclohexyl
1353	CH	CH	CH	CH	N	4-(3-methoxyphenyl)cyclohexyl
1354	CH	CH	CH	CH	N	4-(4-methoxyphenyl)cyclohexyl
1355	CH	CH	CH	CH	N	4-(2-trifluoromethylphenyl)cyclohexyl
1356	CH	CH	CH	CH	N	4-(3-trifluoromethylphenyl)cyclohexyl
1357	CH	CH	CH	CH	N	4-(4-trifluoromethylphenyl)cyclohexyl
1358	CH	CH	CH	CH	N	4-(3,5-difluorophenyl)cyclohexyl
1359	CH	CH	CH	CH	N	4-(3-acetylphenyl)cyclohexyl
1360	CH	CH	CH	CH	N	4-(3-cyanophenyl)cyclohexyl

(continued from Table 3)

1361	CH	CH	CH	CH	N	4-(2-difluoromethoxyphenyl)cyclohexyl
1362	CH	CH	CH	CH	N	4-(3-difluoromethoxyphenyl)cyclohexyl
1363	CH	CH	CH	CH	N	4-(4-difluoromethoxyphenyl)cyclohexyl
1364	CH	CH	CH	CH	N	4-(2-pyridyl)cyclohexyl
1365	CH	CH	CH	CH	N	4-(3-pyridyl)cyclohexyl
1366	CH	CH	CH	CH	N	4-(4-pyridyl)cyclohexyl
1367	CH	CH	CH	CH	N	4-(4-fluoro-3-pyridyl)cyclohexyl
1368	CH	CH	CH	CH	N	4-(3-quinolyl)cyclohexyl
1369	CH	CH	CH	CH	N	4-(3-fluorophenyl)-4-hydroxycyclohexyl
1370	CH	CH	CH	CH	N	3-phenylcyclohexyl
1371	CH	CH	CH	CH	N	3-phenylcyclopentyl
1372	CH	CH	CH	CH	N	6-phenyl-3-tetrahydropyranyl
1373	CH	CH	CH	CH	N	6-(3-fluorophenyl)-3-tetrahydropyranyl
1374	CH	CH	CH	CH	N	2-phenylcyclopropyl
1375	CH	CH	CH	CH	N	2-(2-pyridyl)cyclopropyl
1376	CH	CH	CH	CH	N	2-(3-pyridyl)cyclopropyl
1377	CH	CH	CH	CH	N	2-(4-pyridyl)cyclopropyl
1378	CH	CH	CH	CH	N	2-(3-fluorophenyl)cyclopropyl
1379	CH	CH	CH	CH	N	2-indanyl
1380	CH	CH	CH	CH	N	2-tetrahydronaphthyl
1381	CH	CH	CH	CH	N	6-methoxy-2-tetrahydronaphthyl
1382	CH	CH	CH	CH	N	benzyl
1383	CH	CH	CH	CH	N	phenethyl
1384	CH	CH	CH	CH	N	3-phenylpropyl
1385	CH	CH	CH	CH	N	4-phenylbutyl
1386	CH	CH	CH	CH	N	2-methoxyphenethyl
1387	CH	CH	CH	CH	N	3-methoxyphenethyl
1388	CH	CH	CH	CH	N	4-methoxyphenethyl
1389	CH	CH	CH	CH	N	4-fluorophenethyl
1390	CH	CH	CH	CH	N	4-bromophenethyl
1391	CH	CH	CH	CH	N	4-chlorophenethyl
1392	CH	CH	CH	CH	N	3-trifluoromethylphenethyl
1393	CH	CH	CH	CH	N	3,4-dimethoxyphenethyl
1394	CH	CH	CH	CH	N	3-propoxyphenethyl
1395	CH	CH	CH	CH	N	3,5-difluorophenethyl

(continued from Table 3)

1396	CH	CH	CH	CH	N	4-dimethylaminophenethyl
1397	CH	CH	CH	CH	N	3-difluoromethoxyphenethyl
1398	CH	CH	CH	CH	N	2-methylphenethyl
1399	CH	CH	CH	CH	N	4-acetylphenethyl
1400	CH	CH	CH	CH	N	4-dimethylamino-2-methoxy-phenethyl
1401	CH	CH	CH	CH	N	cyclohexylethyl
1402	CH	CH	CH	CH	N	2-(2-pyridyl)ethyl
1403	CH	CH	CH	CH	N	2-(3-pyridyl)ethyl
1404	CH	CH	CH	CH	N	2-(4-pyridyl)ethyl
1405	CH	CH	CH	CH	N	2-(2-quinolyl)ethyl
1406	CH	CH	CH	CH	N	2-(3-quinolyl)ethyl
1407	CH	CH	CH	CH	N	2-(4-quinolyl)ethyl
1408	CH	CH	CH	CH	N	2-(6-quinolyl)ethyl
1409	CH	CH	CH	CH	N	2-(2-indolyl)ethyl
1410	CH	CH	CH	CH	N	2-(3-indolyl)ethyl
1411	CH	CH	CH	CH	N	2-(7-aza-3-indolyl)ethyl
1412	CH	CH	CH	CH	N	2-(benzimidazolyl)ethyl
1413	CH	CH	CH	CH	N	2-(benzoxazolyl)ethyl
1414	CH	CH	CH	CH	N	2-(benzothiazolyl)ethyl
1415	CH	CH	CH	CH	N	2-(1-naphthyl)ethyl
1416	CH	CH	CH	CH	N	2-(2-naphthyl)ethyl
1417	CH	CH	CH	CH	N	1-(hydroxymethyl)-2-phenylethyl
1418	CH	CH	CH	CH	N	1-(methoxycarbonyl)-2-phenyl-ethyl
1419	CH	CH	CH	CH	N	1-(ethoxycarbonyl)-2-phenylethyl
1420	CH	CH	CH	CH	N	1-carboxy-2-phenylethyl
1421	CH	CH	CH	CH	N	1-(benzyloxycarbonyl)-2-phenyl-ethyl
1422	CH	CH	CH	CH	N	1-(phenoxymethyl)-2-phenylethyl
1423	CH	CH	CH	CH	N	1-(benzyloxymethyl)-2-phenylethyl
1424	CH	CH	CH	CH	N	1-(benzylcarbamoyl)-2-phenylethyl
1425	CH	CH	CH	CH	N	1-(N-methylbenzylcarbamoyl)-2-phenylethyl
1426	CH	CH	CH	CH	N	1-(phenylcarbamoyl)-2-phenylethyl
1427	CH	CH	CH	CH	N	1-(N-methylphenylcarbamoyl)-2-phenylethyl
1428	CH	CH	CH	CH	N	1-(N-benzylaminomethyl)-2-phenylethyl
1429	CH	CH	CH	CH	N	1-(N-benzyl-N-methylamino-methyl)-2-phenylethyl

(continued from Table 3)

1430	CH	CH	CH	CH	N	1-(anilinomethyl)-2-phenylethyl
1431	CH	CH	CH	CH	N	1-(N-methylanilinomethyl)-2-phenylethyl
1432	CH	CH	CH	CH	N	1-(N-methylaminomethyl)-2-phenylethyl
1433	CH	CH	CH	CH	N	1-(N-ethylaminomethyl)-2-phenylethyl
1434	CH	CH	CH	CH	N	1-(N-isobutylaminomethyl)-2-phenylethyl
1435	CH	CH	CH	CH	N	1-(N-cyclopropylmethylamino-methyl)-2-phenylethyl
1436	CH	CH	CH	CH	N	1-(aminomethyl)-2-phenylethyl
1437	CH	CH	CH	CH	N	1-benzyl-2-(2-pyridylmethyl-amino)ethyl
1438	CH	CH	CH	CH	N	1-benzyl-2-(3-pyridylmethyl-amino)ethyl
1439	CH	CH	CH	CH	N	1-benzyl-2-(4-pyridylmethyl-amino)ethyl
1440	CH	CH	CH	CH	N	2-phenyl-1-(2-pyridylmethyl-carbamoyl)ethyl
1441	CH	CH	CH	CH	N	2-phenyl-1-(3-pyridylmethyl-carbamoyl)ethyl
1442	CH	CH	CH	CH	N	2-phenyl-1-(4-pyridylmethyl-carbamoyl)ethyl
1443	CH	CH	CH	CH	N	2-hydroxy-2-phenylethyl
1444	CH	CH	CH	CH	N	benzoylmethyl
1445	CH	CH	CH	CH	N	1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl
1446	CH	CH	CH	CH	N	1-(benzyloxycarbonyl)-2-cyclohexylethyl
1447	CH	CH	CH	CH	N	1-(phenoxymethyl)-2-(3-indolyl)ethyl
1448	CH	CH	CH	CH	N	2-(2-methoxyphenoxy)ethyl
1449	CH	CH	CH	CH	N	1-(benzylcarbamoyl)-2-cyclohexyl-ethyl
1450	CH	CH	CH	CH	N	1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl
1451	CH	CH	CH	CH	N	1-(phenylcarbamoyl)-2-cyclohexyl-ethyl
1452	CH	CH	CH	CH	N	1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
1453	CH	CH	CH	CH	N	1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl

(continued from Table 3)

1454	CH	CH	CH	CH	N	1-(benzylaminomethyl)-2-(3-pyridyl)ethyl
1455	CH	CH	CH	CH	N	1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl
1456	CH	CH	CH	CH	N	1-(4-pyridylmethylcarbamoyl)-2-(4-fluorophenyl)ethyl
1457	CH	CH	CH	CH	N	1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
1458	CH	CH	CH	CH	N	1-(benzyloxymethyl)-2-(2-indolyl)ethyl
1459	CH	CH	CH	CH	N	1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl
1460	CH	CH	CH	CH	N	1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
1461	CH	CH	CH	CH	N	2-hydroxy-2-(4-dimethylamino-phenyl)ethyl
1462	CH	CH	CH	CH	N	2-hydroxy-2-(2-quinolyl)ethyl
1463	CH	CH	CH	CH	N	2-hydroxy-2-(3-quinolyl)ethyl
1464	CH	CH	CH	CH	N	2-hydroxy-2-(4-quinolyl)ethyl
1465	CH	CH	CH	CH	N	2-hydroxy-2-(3,5-difluoro-phenyl)ethyl
1466	CH	CH	CH	CH	N	1-carboxy-2-cyclohexylethyl
1467	CH	CH	CH	CH	N	2-hydroxy-2-(6-quinolyl)ethyl
1468	CH	CH	CH	CH	N	2-(benzylamino)-2-phenylethyl
1469	CH	CH	CH	CH	N	2-amino-2-(2-naphthyl)propyl
1470	CH	CH	CH	CH	N	2-(phenylamino)ethyl
1471	CH	CH	CH	CH	N	diphenylmethyl
1472	CH	CH	CH	CH	N	2,2-diphenylethyl
1473	CH	CH	CH	CH	N	2-phenyl-2-(2-pyridyl)ethyl
1474	CH	CH	CH	CH	N	2-phenyl-2-(3-pyridyl)ethyl
1475	CH	CH	CH	CH	N	2-phenyl-2-(4-pyridyl)ethyl
1476	CH	CH	CH	CH	N	2-phenoxy-2-phenylethyl
1477	CH	CH	CH	CH	N	2-(benzyloxy)-2-phenylethyl
1478	N	CH	CH	CH	CH	1-phenyl-3-pyrrolidinyl
1479	N	CH	CH	CH	CH	1-(2-fluorophenyl)-3-pyrrolidinyl
1480	N	CH	CH	CH	CH	1-(3-fluorophenyl)-3-pyrrolidinyl
1481	N	CH	CH	CH	CH	1-(4-fluorophenyl)-3-pyrrolidinyl
1482	N	CH	CH	CH	CH	1-(2-chlorophenyl)-3-pyrrolidinyl
1483	N	CH	CH	CH	CH	1-(3-chlorophenyl)-3-pyrrolidinyl
1484	N	CH	CH	CH	CH	1-(4-chlorophenyl)-3-pyrrolidinyl
1485	N	CH	CH	CH	CH	1-(2-methylphenyl)-3-pyrrolidinyl

(continued from Table 3)

1486	N	CH	CH	CH	CH	1-(3-methylphenyl)-3-pyrrolidinyl
1487	N	CH	CH	CH	CH	1-(4-methylphenyl)-3-pyrrolidinyl
1488	N	CH	CH	CH	CH	1-(2-methoxyphenyl)-3-pyrrolidinyl
1489	N	CH	CH	CH	CH	1-(3-methoxyphenyl)-3-pyrrolidinyl
1490	N	CH	CH	CH	CH	1-(4-methoxyphenyl)-3-pyrrolidinyl
1491	N	CH	CH	CH	CH	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
1492	N	CH	CH	CH	CH	1-(3-trifluoromethylphenyl)-3-pyrrolidinyl
1493	N	CH	CH	CH	CH	1-(4-trifluoromethylphenyl)-3-pyrrolidinyl
1494	N	CH	CH	CH	CH	1-(3,5-difluorophenyl)-3-pyrrolidinyl
1495	N	CH	CH	CH	CH	1-(2-difluoromethoxyphenyl)-3-pyrrolidinyl
1496	N	CH	CH	CH	CH	1-(3-difluoromethoxyphenyl)-3-pyrrolidinyl
1497	N	CH	CH	CH	CH	1-(4-difluoromethoxyphenyl)-3-pyrrolidinyl
1498	N	CH	CH	CH	CH	1-(2-pyridyl)-3-pyrrolidinyl
1499	N	CH	CH	CH	CH	1-(3-pyridyl)-3-pyrrolidinyl
1500	N	CH	CH	CH	CH	1-(4-pyridyl)-3-pyrrolidinyl
1501	N	CH	CH	CH	CH	1-(2-pyrimidinyl)-3-pyrrolidinyl
1502	N	CH	CH	CH	CH	5-oxo-1-phenyl-3-pyrrolidinyl
1503	N	CH	CH	CH	CH	1-phenyl-3-piperidyl
1504	N	CH	CH	CH	CH	1-(2-fluorophenyl)-3-piperidyl
1505	N	CH	CH	CH	CH	1-(3-fluorophenyl)-3-piperidyl
1506	N	CH	CH	CH	CH	1-(4-fluorophenyl)-3-piperidyl
1507	N	CH	CH	CH	CH	1-(2-chlorophenyl)-3-piperidyl
1508	N	CH	CH	CH	CH	1-(3-chlorophenyl)-3-piperidyl
1509	N	CH	CH	CH	CH	1-(4-chlorophenyl)-3-piperidyl
1510	N	CH	CH	CH	CH	1-(2-methylphenyl)-3-piperidyl
1511	N	CH	CH	CH	CH	1-(3-methylphenyl)-3-piperidyl
1512	N	CH	CH	CH	CH	1-(4-methylphenyl)-3-piperidyl
1513	N	CH	CH	CH	CH	1-(2-methoxyphenyl)-3-piperidyl
1514	N	CH	CH	CH	CH	1-(3-methoxyphenyl)-3-piperidyl
1515	N	CH	CH	CH	CH	1-(4-methoxyphenyl)-3-piperidyl

(continued from Table 3)

1516	N	CH	CH	CH	CH	1-(2-trifluoromethylphenyl)-3-piperidyl
1517	N	CH	CH	CH	CH	1-(3-trifluoromethylphenyl)-3-piperidyl
1518	N	CH	CH	CH	CH	1-(4-trifluoromethylphenyl)-3-piperidyl
1519	N	CH	CH	CH	CH	1-(3,5-difluorophenyl)-3-piperidyl
1520	N	CH	CH	CH	CH	1-(2-difluoromethoxyphenyl)-3-piperidyl
1521	N	CH	CH	CH	CH	1-(3-difluoromethoxyphenyl)-3-piperidyl
1522	N	CH	CH	CH	CH	1-(4-difluoromethoxyphenyl)-3-piperidyl
1523	N	CH	CH	CH	CH	1-(2-pyridyl)-3-piperidyl
1524	N	CH	CH	CH	CH	1-(3-pyridyl)-3-piperidyl
1525	N	CH	CH	CH	CH	1-(4-pyridyl)-3-piperidyl
1526	N	CH	CH	CH	CH	1-phenyl-4-piperidyl
1527	N	CH	CH	CH	CH	1-(2-fluorophenyl)-4-piperidyl
1528	N	CH	CH	CH	CH	1-(3-fluorophenyl)-4-piperidyl
1529	N	CH	CH	CH	CH	1-(4-fluorophenyl)-4-piperidyl
1530	N	CH	CH	CH	CH	1-(2-chlorophenyl)-4-piperidyl
1531	N	CH	CH	CH	CH	1-(3-chlorophenyl)-4-piperidyl
1532	N	CH	CH	CH	CH	1-(4-chlorophenyl)-4-piperidyl
1533	N	CH	CH	CH	CH	1-(2-methylphenyl)-4-piperidyl
1534	N	CH	CH	CH	CH	1-(3-methylphenyl)-4-piperidyl
1535	N	CH	CH	CH	CH	1-(4-methylphenyl)-4-piperidyl
1536	N	CH	CH	CH	CH	1-(2-methoxyphenyl)-4-piperidyl
1537	N	CH	CH	CH	CH	1-(3-methoxyphenyl)-4-piperidyl
1538	N	CH	CH	CH	CH	1-(4-methoxyphenyl)-4-piperidyl
1539	N	CH	CH	CH	CH	1-(2-trifluoromethylphenyl)-4-piperidyl
1540	N	CH	CH	CH	CH	1-(3-trifluoromethylphenyl)-4-piperidyl
1541	N	CH	CH	CH	CH	1-(4-trifluoromethylphenyl)-4-piperidyl
1542	N	CH	CH	CH	CH	1-(3,5-difluorophenyl)-4-piperidyl
1543	N	CH	CH	CH	CH	1-(2-difluoromethoxyphenyl)-4-piperidyl
1544	N	CH	CH	CH	CH	1-(3-difluoromethoxyphenyl)-4-piperidyl

(continued from Table 3)

1545	N	CH	CH	CH	CH	1-(4-difluoromethoxyphenyl)-4-piperidyl
1546	N	CH	CH	CH	CH	1-(2-pyridyl)-4-piperidyl
1547	N	CH	CH	CH	CH	1-(3-pyridyl)-4-piperidyl
1548	N	CH	CH	CH	CH	1-(4-pyridyl)-4-piperidyl
1549	N	CH	CH	CH	CH	3-hydroxymethyl-1-phenyl-4-piperidyl
1550	N	CH	CH	CH	CH	3-methoxycarbonyl-1-phenyl-4-piperidyl
1551	N	CH	CH	CH	CH	3-ethoxycarbonyl-1-phenyl-4-piperidyl
1552	N	CH	CH	CH	CH	3-isopropoxycarbonyl-1-phenyl-4-piperidyl
1553	N	CH	CH	CH	CH	4-phenylcyclohexyl
1554	N	CH	CH	CH	CH	4-(2-fluorophenyl)cyclohexyl
1555	N	CH	CH	CH	CH	4-(3-fluorophenyl)cyclohexyl
1556	N	CH	CH	CH	CH	4-(4-fluorophenyl)cyclohexyl
1557	N	CH	CH	CH	CH	4-(2-chlorophenyl)cyclohexyl
1558	N	CH	CH	CH	CH	4-(3-chlorophenyl)cyclohexyl
1559	N	CH	CH	CH	CH	4-(4-chlorophenyl)cyclohexyl
1560	N	CH	CH	CH	CH	4-(2-methylphenyl)cyclohexyl
1561	N	CH	CH	CH	CH	4-(3-methylphenyl)cyclohexyl
1562	N	CH	CH	CH	CH	4-(4-methylphenyl)cyclohexyl
1563	N	CH	CH	CH	CH	4-(2-methoxyphenyl)cyclohexyl
1564	N	CH	CH	CH	CH	4-(3-methoxyphenyl)cyclohexyl
1565	N	CH	CH	CH	CH	4-(4-methoxyphenyl)cyclohexyl
1566	N	CH	CH	CH	CH	4-(2-trifluoromethylphenyl)cyclohexyl
1567	N	CH	CH	CH	CH	4-(3-trifluoromethylphenyl)cyclohexyl
1568	N	CH	CH	CH	CH	4-(4-trifluoromethylphenyl)cyclohexyl
1569	N	CH	CH	CH	CH	4-(3,5-difluorophenyl)cyclohexyl
1570	N	CH	CH	CH	CH	4-(3-acetylphenyl)cyclohexyl
1571	N	CH	CH	CH	CH	4-(3-cyanophenyl)cyclohexyl
1572	N	CH	CH	CH	CH	4-(2-difluoromethoxyphenyl)cyclohexyl
1573	N	CH	CH	CH	CH	4-(3-difluoromethoxyphenyl)cyclohexyl
1574	N	CH	CH	CH	CH	4-(4-difluoromethoxyphenyl)cyclohexyl
1575	N	CH	CH	CH	CH	4-(2-pyridyl)cyclohexyl

(continued from Table 3)

1576	N	CH	CH	CH	CH	4-(3-pyridyl)cyclohexyl
1577	N	CH	CH	CH	CH	4-(4-pyridyl)cyclohexyl
1578	N	CH	CH	CH	CH	4-(4-fluoro-3-pyridyl)cyclohexyl
1579	N	CH	CH	CH	CH	4-(3-quinolyl)cyclohexyl
1580	N	CH	CH	CH	CH	4-(3-fluorophenyl)-4-hydroxy-cyclohexyl
1581	N	CH	CH	CH	CH	3-phenylcyclohexyl
1582	N	CH	CH	CH	CH	3-phenylcyclopentyl
1583	N	CH	CH	CH	CH	6-phenyl-3-tetrahydropyranyl
1584	N	CH	CH	CH	CH	6-(3-fluorophenyl)-3-tetrahydro-pyranyl
1585	N	CH	CH	CH	CH	2-phenylcyclopropyl
1586	N	CH	CH	CH	CH	2-(2-pyridyl)cyclopropyl
1587	N	CH	CH	CH	CH	2-(3-pyridyl)cyclopropyl
1588	N	CH	CH	CH	CH	2-(4-pyridyl)cyclopropyl
1589	N	CH	CH	CH	CH	2-(3-fluorophenyl)cyclopropyl
1590	N	CH	CH	CH	CH	2-indanyl
1591	N	CH	CH	CH	CH	2-tetrahydronaphthyl
1592	N	CH	CH	CH	CH	6-methoxy-2-tetrahydronaphthyl
1593	N	CH	CH	CH	CH	benzyl
1594	N	CH	CH	CH	CH	phenethyl
1595	N	CH	CH	CH	CH	3-phenylpropyl
1596	N	CH	CH	CH	CH	4-phenylbutyl
1597	N	CH	CH	CH	CH	2-methoxyphenethyl
1598	N	CH	CH	CH	CH	3-methoxyphenethyl
1599	N	CH	CH	CH	CH	4-methoxyphenethyl
1600	N	CH	CH	CH	CH	4-fluorophenethyl
1601	N	CH	CH	CH	CH	4-bromophenethyl
1602	N	CH	CH	CH	CH	4-chlorophenethyl
1603	N	CH	CH	CH	CH	3-trifluoromethylphenethyl
1604	N	CH	CH	CH	CH	3,4-dimethoxyphenethyl
1605	N	CH	CH	CH	CH	3-propoxyphenethyl
1606	N	CH	CH	CH	CH	3,5-difluorophenethyl
1607	N	CH	CH	CH	CH	4-dimethylaminophenethyl
1608	N	CH	CH	CH	CH	3-difluoromethoxyphenethyl
1609	N	CH	CH	CH	CH	2-methylphenethyl
1610	N	CH	CH	CH	CH	4-acetylphenethyl
1611	N	CH	CH	CH	CH	4-dimethylamino-2-methoxy-phenethyl
1612	N	CH	CH	CH	CH	cyclohexylethyl

(continued from Table 3)

1613	N	CH	CH	CH	CH	2-(2-pyridyl)ethyl
1614	N	CH	CH	CH	CH	2-(3-pyridyl)ethyl
1615	N	CH	CH	CH	CH	2-(4-pyridyl)ethyl
1616	N	CH	CH	CH	CH	2-(2-quinolyl)ethyl
1617	N	CH	CH	CH	CH	2-(3-quinolyl)ethyl
1618	N	CH	CH	CH	CH	2-(4-quinolyl)ethyl
1619	N	CH	CH	CH	CH	2-(6-quinolyl)ethyl
1620	N	CH	CH	CH	CH	2-(2-indolyl)ethyl
1621	N	CH	CH	CH	CH	2-(3-indolyl)ethyl
1622	N	CH	CH	CH	CH	2-(7-aza-3-indolyl)ethyl
1623	N	CH	CH	CH	CH	2-(benzimidazolyl)ethyl
1624	N	CH	CH	CH	CH	2-(benzoxazolyl)ethyl
1625	N	CH	CH	CH	CH	2-(benzothiazolyl)ethyl
1626	N	CH	CH	CH	CH	2-(1-naphthyl)ethyl
1627	N	CH	CH	CH	CH	2-(2-naphthyl)ethyl
1628	N	CH	CH	CH	CH	1-(hydroxymethyl)-2-phenylethyl
1629	N	CH	CH	CH	CH	1-(methoxycarbonyl)-2-phenyl-ethyl
1630	N	CH	CH	CH	CH	1-(ethoxycarbonyl)-2-phenylethyl
1631	N	CH	CH	CH	CH	1-carboxy-2-phenylethyl
1632	N	CH	CH	CH	CH	1-(benzyloxycarbonyl)-2-phenylethyl
1633	N	CH	CH	CH	CH	1-(phenoxymethyl)-2-phenylethyl
1634	N	CH	CH	CH	CH	1-(benzyloxymethyl)-2-phenyl-ethyl
1635	N	CH	CH	CH	CH	1-(benzylcarbamoyl)-2-phenyl-ethyl
1636	N	CH	CH	CH	CH	1-(N-methylbenzylcarbamoyl)-2-phenylethyl
1637	N	CH	CH	CH	CH	1-(phenylcarbamoyl)-2-phenyl-ethyl
1638	N	CH	CH	CH	CH	1-(N-methylphenylcarbamoyl)-2-phenylethyl
1639	N	CH	CH	CH	CH	1-(N-benzylaminomethyl)-2-phenylethyl
1640	N	CH	CH	CH	CH	1-(N-benzyl-N-methylamino-methyl)-2-phenylethyl
1641	N	CH	CH	CH	CH	1-(anilinomethyl)-2-phenylethyl
1642	N	CH	CH	CH	CH	1-(N-methylanilinomethyl)-2-phenylethyl

(continued from Table 3)

1643	N	CH	CH	CH	CH	1-(N-methylaminomethyl)-2-phenyl-ethyl
1644	N	CH	CH	CH	CH	1-(N-ethylaminomethyl)-2-phenyl-ethyl
1645	N	CH	CH	CH	CH	1-(N-isobutylaminomethyl)-2-phenylethyl
1646	N	CH	CH	CH	CH	1-(N-cyclopropylmethylamino-methyl)-2-phenylethyl
1647	N	CH	CH	CH	CH	1-(aminomethyl)-2-phenylethyl
1648	N	CH	CH	CH	CH	1-benzyl-2-(2-pyridylmethyl-amino)ethyl
1649	N	CH	CH	CH	CH	1-benzyl-2-(3-pyridylmethyl-amino)ethyl
1650	N	CH	CH	CH	CH	1-benzyl-2-(4-pyridylmethyl-amino)ethyl
1651	N	CH	CH	CH	CH	2-phenyl-1-(2-pyridylmethyl-carbamoyl)ethyl
1652	N	CH	CH	CH	CH	2-phenyl-1-(3-pyridylmethyl-carbamoyl)ethyl
1653	N	CH	CH	CH	CH	2-phenyl-1-(4-pyridylmethyl-carbamoyl)ethyl
1654	N	CH	CH	CH	CH	2-hydroxy-2-phenylethyl
1655	N	CH	CH	CH	CH	benzoylmethyl
1656	N	CH	CH	CH	CH	1-(benzyloxycarbonyl)—2-(3-indolyl)ethyl
1657	N	CH	CH	CH	CH	1-(benzyloxycarbonyl)—2-cyclo-hexylethyl
1658	N	CH	CH	CH	CH	1-(phenoxymethyl)—2-(3-indolyl)ethyl
1659	N	CH	CH	CH	CH	2-(2-methoxyphenoxy)ethyl
1660	N	CH	CH	CH	CH	1-(benzylcarbamoyl)-2-cyclo-hexylethyl
1661	N	CH	CH	CH	CH	1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl
1662	N	CH	CH	CH	CH	1-(phenylcarbamoyl)-2-cyclohexyl-ethyl
1663	N	CH	CH	CH	CH	1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
1664	N	CH	CH	CH	CH	1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl
1665	N	CH	CH	CH	CH	1-(benzylaminomethyl)-2-(3-pyridyl)ethyl
1666	N	CH	CH	CH	CH	1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl

(continued from Table 3)

1667	N	CH	CH	CH	CH	1-(4-pyridylmethylcarbamoyl)-2-(4-fluorophenyl)ethyl
1668	N	CH	CH	CH	CH	1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
1669	N	CH	CH	CH	CH	1-(benzyloxymethyl)-2-(2-indolyl)ethyl
1670	N	CH	CH	CH	CH	1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl
1671	N	CH	CH	CH	CH	1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
1672	N	CH	CH	CH	CH	2-hydroxy-2-(4-dimethylamino-phenyl)ethyl
1673	N	CH	CH	CH	CH	2-hydroxy-2-(2-quinolyl)ethyl
1674	N	CH	CH	CH	CH	2-hydroxy-2-(3-quinolyl)ethyl
1675	N	CH	CH	CH	CH	2-hydroxy-2-(4-quinolyl)ethyl
1676	N	CH	CH	CH	CH	2-hydroxy-2-(3,5-difluoro-phenyl)ethyl
1677	N	CH	CH	CH	CH	1-carboxy-2-cyclohexylethyl
1678	N	CH	CH	CH	CH	2-hydroxy-2-(6-quinolyl)ethyl
1679	N	CH	CH	CH	CH	2-(benzylamino)-2-phenylethyl
1680	N	CH	CH	CH	CH	2-amino-2-(2-naphthyl)propyl
1681	N	CH	CH	CH	CH	2-(phenylamino)ethyl
1682	N	CH	CH	CH	CH	diphenylmethyl
1683	N	CH	CH	CH	CH	2,2-diphenylethyl
1684	N	CH	CH	CH	CH	2-phenyl-2-(2-pyridyl)ethyl
1685	N	CH	CH	CH	CH	2-phenyl-2-(3-pyridyl)ethyl
1686	N	CH	CH	CH	CH	2-phenyl-2-(4-pyridyl)ethyl
1687	N	CH	CH	CH	CH	2-phenoxy-2-phenylethyl
1688	N	CH	CH	CH	CH	2-(benzyloxy)-2-phenylethyl
1689	N	CH	CH	CH	N	1-phenyl-3-pyrrolidinyl
1690	N	CH	CH	CH	N	1-(2-fluorophenyl)-3-pyrrolidinyl
1691	N	CH	CH	CH	N	1-(3-fluorophenyl)-3-pyrrolidinyl
1692	N	CH	CH	CH	N	1-(4-fluorophenyl)-3-pyrrolidinyl
1693	N	CH	CH	CH	N	1-(2-chlorophenyl)-3-pyrrolidinyl
1694	N	CH	CH	CH	N	1-(3-chlorophenyl)-3-pyrrolidinyl
1695	N	CH	CH	CH	N	1-(4-chlorophenyl)-3-pyrrolidinyl
1696	N	CH	CH	CH	N	1-(2-methylphenyl)-3-pyrrolidinyl
1697	N	CH	CH	CH	N	1-(3-methylphenyl)-3-pyrrolidinyl
1698	N	CH	CH	CH	N	1-(4-methylphenyl)-3-pyrrolidinyl
1699	N	CH	CH	CH	N	1-(2-methoxyphenyl)-3-pyrrolidinyl

(continued from Table 3)

1700	N	CH	CH	CH	N	1-(3-methoxyphenyl)-3-pyrrolidinyl
1701	N	CH	CH	CH	N	1-(4-methoxyphenyl)-3-pyrrolidinyl
1702	N	CH	CH	CH	N	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
1703	N	CH	CH	CH	N	1-(3-trifluoromethylphenyl)-3-pyrrolidinyl
1704	N	CH	CH	CH	N	1-(4-trifluoromethylphenyl)-3-pyrrolidinyl
1705	N	CH	CH	CH	N	1-(3,5-difluorophenyl)-3-pyrrolidinyl
1706	N	CH	CH	CH	N	1-(2-difluoromethoxyphenyl)-3-pyrrolidinyl
1707	N	CH	CH	CH	N	1-(3-difluoromethoxyphenyl)-3-pyrrolidinyl
1708	N	CH	CH	CH	N	1-(4-difluoromethoxyphenyl)-3-pyrrolidinyl
1709	N	CH	CH	CH	N	1-(2-pyridyl)-3-pyrrolidinyl
1710	N	CH	CH	CH	N	1-(3-pyridyl)-3-pyrrolidinyl
1711	N	CH	CH	CH	N	1-(4-pyridyl)-3-pyrrolidinyl
1712	N	CH	CH	CH	N	1-(2-pyrimidinyl)-3-pyrrolidinl
1713	N	CH	CH	CH	N	5-oxo-1-phenyl-3-pyrrolidinyl
1714	N	CH	CH	CH	N	1-phenyl-3-piperidyl
1715	N	CH	CH	CH	N	1-(2-fluorophenyl)-3-piperidyl
1716	N	CH	CH	CH	N	1-(3-fluorophenyl)-3-piperidyl
1717	N	CH	CH	CH	N	1-(4-fluorophenyl)-3-piperidyl
1718	N	CH	CH	CH	N	1-(2-chlorophenyl)-3-piperidyl
1719	N	CH	CH	CH	N	1-(3-chlorophenyl)-3-piperidyl
1720	N	CH	CH	CH	N	1-(4-chlorophenyl)-3-piperidyl
1721	N	CH	CH	CH	N	1-(2-methylphenyl)-3-piperidyl
1722	N	CH	CH	CH	N	1-(3-methylphenyl)-3-piperidyl
1723	N	CH	CH	CH	N	1-(4-methylphenyl)-3-piperidyl
1724	N	CH	CH	CH	N	1-(2-methoxyphenyl)-3-piperidyl
1725	N	CH	CH	CH	N	1-(3-methoxyphenyl)-3-piperidyl
1726	N	CH	CH	CH	N	1-(4-methoxyphenyl)-3-piperidyl
1727	N	CH	CH	CH	N	1-(2-trifuoromethylphenyl)-3-piperidyl
1728	N	CH	CH	CH	N	1-(3-trifuoromethylphenyl)-3-piperidyl

(continued from Table 3)

1729	N	CH	CH	CH	N	1-(4-trifuoromethylphenyl)-3-piperidyl
1730	N	CH	CH	CH	N	1-(3,5-difluorophenyl)-3-piperidyl
1731	N	CH	CH	CH	N	1-(2-difluoromethoxyphenyl)-3-piperidyl
1732	N	CH	CH	CH	N	1-(3-difluoromethoxyphenyl)-3-piperidyl
1733	N	CH	CH	CH	N	1-(4-difluoromethoxyphenyl)-3-piperidiyl
1734	N	CH	CH	CH	N	1-(2-pyridyl)-3-piperidyl
1735	N	CH	CH	CH	N	1-(3-pyridyl)-3-piperidyl
1736	N	CH	CH	CH	N	1-(4-pyridyl)-3-piperidyl
1737	N	CH	CH	CH	N	1-phenyl-4-piperidyl
1738	N	CH	CH	CH	N	1-(2-fluorophenyl)-4-piperidyl
1739	N	CH	CH	CH	N	1-(3-fluorophenyl)-4-piperidyl
1740	N	CH	CH	CH	N	1-(4-fluorophenyl)-4-piperidyl
1741	N	CH	CH	CH	N	1-(2-chlorophenyl)-4-piperidyl
1742	N	CH	CH	CH	N	1-(3-chlorophenyl)-4-piperidyl
1743	N	CH	CH	CH	N	1-(4-chlorophenyl)-4-piperidyl
1744	N	CH	CH	CH	N	1-(2-methylphenyl)-4-piperidyl
1745	N	CH	CH	CH	N	1-(3-methylphenyl)-4-piperidyl
1746	N	CH	CH	CH	N	1-(4-methylphenyl)-4-piperidyl
1747	N	CH	CH	CH	N	1-(2-methoxyphenyl)-4-piperidyl
1748	N	CH	CH	CH	N	1-(3-methoxyphenyl)-4-piperidyl
1749	N	CH	CH	CH	N	1-(4-methoxyphenyl)-4-piperidyl
1750	N	CH	CH	CH	N	1-(2-trifluoromethylphenyl)-4-piperidyl
1751	N	CH	CH	CH	N	1-(3-trifluoromethylphenyl)-4-piperidyl
1752	N	CH	CH	CH	N	1-(4-trifluoromethylphenyl)-4-piperidyl
1753	N	CH	CH	CH	N	1-(3,5-difluorophenyl)-4-piperidyl
1754	N	CH	CH	CH	N	1-(2-difluoromethoxyphenyl)-4-piperidyl
1755	N	CH	CH	CH	N	1-(3-difluoromethoxyphenyl)-4-piperidyl
1756	N	CH	CH	CH	N	1-(4-difluoromethoxyphenyl)-4-piperidyl
1757	N	CH	CH	CH	N	1-(2-pyridyl)-4-piperidyl
1758	N	CH	CH	CH	N	1-(3-pyridyl)-4-piperidyl
1759	N	CH	CH	CH	N	1-(4-pyridyl)-4-piperidyl

(continued from Table 3)

1760	N	CH	CH	CH	N	3-hydroxymethyl-1-phenyl-4-piperidyl
1761	N	CH	CH	CH	N	3-methoxycarbonyl-1-phenyl-4-piperidyl
1762	N	CH	CH	CH	N	3-ethoxycarbonyl-1-phenyl-4-piperidyl
1763	N	CH	CH	CH	N	3-isopropoxycarbonyl-1-phenyl-4-piperidyl
1764	N	CH	CH	CH	N	4-phenylcyclohexyl
1765	N	CH	CH	CH	N	4-(2-fluorophenyl)cyclohexyl
1766	N	CH	CH	CH	N	4-(3-fluorophenyl)cyclohexyl
1767	N	CH	CH	CH	N	4-(4-fluorophenyl)cyclohexyl
1768	N	CH	CH	CH	N	4-(2-chlorophenyl)cyclohexyl
1769	N	CH	CH	CH	N	4-(3-chlorophenyl)cyclohexyl
1770	N	CH	CH	CH	N	4-(4-chlorophenyl)cyclohexyl
1771	N	CH	CH	CH	N	4-(2-methylphenyl)cyclohexyl
1772	N	CH	CH	CH	N	4-(3-methylphenyl)cyclohexyl
1773	N	CH	CH	CH	N	4-(4-methylphenyl)cyclohexyl
1774	N	CH	CH	CH	N	4-(2-methoxyphenyl)cyclohexyl
1775	N	CH	CH	CH	N	4-(3-methoxyphenyl)cyclohexyl
1776	N	CH	CH	CH	N	4-(4-methoxyphenyl)cyclohexyl
1777	N	CH	CH	CH	N	4-(2-trifluoromethylphenyl)cyclohexyl
1778	N	CH	CH	CH	N	4-(3-trifluoromethylphenyl)cyclohexyl
1779	N	CH	CH	CH	N	4-(4-trifluoromethylphenyl)cyclohexyl
1780	N	CH	CH	CH	N	4-(3,5-difluorophenyl)cyclohexyl
1781	N	CH	CH	CH	N	4-(3-acetylphenyl)cyclohexyl
1782	N	CH	CH	CH	N	4-(3-cyanophenyl)cyclohexyl
1783	N	CH	CH	CH	N	4-(2-difluoromethoxyphenyl)cyclohexyl
1784	N	CH	CH	CH	N	4-(3-difluoromethoxyphenyl)cyclohexyl
1785	N	CH	CH	CH	N	4-(4-difluoromethoxyphenyl)cyclohexyl
1786	N	CH	CH	CH	N	4-(2-pyridyl)cyclohexyl
1787	N	CH	CH	CH	N	4-(3-pyridyl)cyclohexyl
1788	N	CH	CH	CH	N	4-(4-pyridyl)cyclohexyl
1789	N	CH	CH	CH	N	4-(4-fluoro-3-pyridyl)cyclohexyl
1790	N	CH	CH	CH	N	4-(3-quinolyl)cyclohexyl

(continued from Table 3)

1791	N	CH	CH	CH	N	4-(3-fluorophenyl)-4-hydroxy-cyclohexyl
1792	N	CH	CH	CH	N	3-phenylcyclohexyl
1793	N	CH	CH	CH	N	3-phenylcyclopentyl
1794	N	CH	CH	CH	N	6-phenyl-3-tetrahydropyranyl
1795	N	CH	CH	CH	N	6-(3-fluorophenyl)-3-tetrahydro-pyranyl
1796	N	CH	CH	CH	N	2-phenylcyclopropyl
1797	N	CH	CH	CH	N	2-(2-pyridyl)cyclopropyl
1798	N	CH	CH	CH	N	2-(3-pyridyl)cyclopropyl
1799	N	CH	CH	CH	N	2-(4-pyridyl)cyclopropyl
1800	N	CH	CH	CH	N	2-(3-fluorophenyl)cyclopropyl
1801	N	CH	CH	CH	N	2-indanyl
1802	N	CH	CH	CH	N	2-tetrahydronaphthyl
1803	N	CH	CH	CH	N	6-methoxy-2-tetrahydronaphthyl
1804	N	CH	CH	CH	N	benzyl
1805	N	CH	CH	CH	N	phenethyl
1806	N	CH	CH	CH	N	3-phenylpropyl
1807	N	CH	CH	CH	N	4-phenylbutyl
1808	N	CH	CH	CH	N	2-methoxyphenethyl
1809	N	CH	CH	CH	N	3-methoxyphenethyl
1810	N	CH	CH	CH	N	4-methoxyphenethyl
1811	N	CH	CH	CH	N	4-fluorophenethyl
1812	N	CH	CH	CH	N	4-bromophenethyl
1813	N	CH	CH	CH	N	4-chlorophenethyl
1814	N	CH	CH	CH	N	3-trifluoromethylphenethyl
1815	N	CH	CH	CH	N	3,4-dimethoxyphenethyl
1816	N	CH	CH	CH	N	3-propoxyphenethyl
1817	N	CH	CH	CH	N	3,5-difluorophenethyl
1818	N	CH	CH	CH	N	4-dimethylaminophenethyl
1819	N	CH	CH	CH	N	3-difluoromethoxyphenethyl
1820	N	CH	CH	CH	N	2-methylphenethyl
1821	N	CH	CH	CH	N	4-acetylphenethyl
1822	N	CH	CH	CH	N	4-dimethylamino-2-methoxy-phenethyl
1823	N	CH	CH	CH	N	cyclohexylethyl
1824	N	CH	CH	CH	N	2-(2-pyridyl)ethyl
1825	N	CH	CH	CH	N	2-(3-pyridyl)ethyl
1826	N	CH	CH	CH	N	2-(4-pyridyl)ethyl
1827	N	CH	CH	CH	N	2-(2-quinolyl)ethyl

(continued from Table 3)

1828	N	CH	CH	CH	N	2-(3-quinolyl)ethyl
1829	N	CH	CH	CH	N	2-(4-quinolyl)ethyl
1830	N	CH	CH	CH	N	2-(6-quinolyl)ethyl
1831	N	CH	CH	CH	N	2-(2-indolyl)ethyl
1832	N	CH	CH	CH	N	2-(3-indolyl)ethyl
1833	N	CH	CH	CH	N	2-(7-aza-3-indolyl)ethyl
1834	N	CH	CH	CH	N	2-(benzimidazolyl)ethyl
1835	N	CH	CH	CH	N	2-(benzoxazolyl)ethyl
1836	N	CH	CH	CH	N	2-(benzothiazolyl)ethyl
1837	N	CH	CH	CH	N	2-(1-naphthyl)ethyl
1838	N	CH	CH	CH	N	2-(2-naphthyl)ethyl
1839	N	CH	CH	CH	N	1-(hydroxymethyl)-2-phenylethyl
1840	N	CH	CH	CH	N	1-(methoxycarbonyl)-2-phenylethyl
1841	N	CH	CH	CH	N	1-(ethoxycarbonyl)-2-phenylethyl
1842	N	CH	CH	CH	N	1-carboxy-2-phenylethyl
1843	N	CH	CH	CH	N	1-(benzyloxycarbonyl)-2-phenylethyl
1844	N	CH	CH	CH	N	1-(phenoxymethyl)-2-phenylethyl
1845	N	CH	CH	CH	N	1-(benzyloxymethyl)-2-phenylethyl
1846	N	CH	CH	CH	N	1-(benzylcarbamoyl)-2-phenylethyl
1847	N	CH	CH	CH	N	1-(N-methylbenzylcarbamoyl)-2-phenylethyl
1848	N	CH	CH	CH	N	1-(phenylcarbamoyl)-2-phenylethyl
1849	N	CH	CH	CH	N	1-(N-methylphenylcarbamoyl)-2-phenylethyl
1850	N	CH	CH	CH	N	1-(N-benzylaminomethyl)-2-phenylethyl
1851	N	CH	CH	CH	N	1-(N-benzyl-N-methylaminomethyl)-2-phenylethyl
1852	N	CH	CH	CH	N	1-(anilinomethyl)-2-phenylethyl
1853	N	CH	CH	CH	N	1-(N-methylanilinomethyl)-2-phenylethyl
1854	N	CH	CH	CH	N	1-(N-methylaminomethyl)-2-phenylethyl
1855	N	CH	CH	CH	N	1-(N-ethylaminomethyl)-2-phenylethyl
1856	N	CH	CH	CH	N	1-(N-isobutylaminomethyl)-2-phenylethyl
1857	N	CH	CH	CH	N	1-(N-cyclopropylmethylaminomethyl)-2-phenylethyl
1858	N	CH	CH	CH	N	1-(aminomethyl)-2-phenylethyl

(continued from Table 3)

1859	N	CH	CH	CH	N	1-benzyl-2-(2-pyridylmethyl-amino)ethyl
1860	N	CH	CH	CH	N	1-benzyl-2-(3-pyridylmethyl-amino)ethyl
1861	N	CH	CH	CH	N	1-benzyl-2-(4-pyridylmethyl-amino)ethyl
1862	N	CH	CH	CH	N	2-phenyl-1-(2-pyridylmethyl-carbamoyl)ethyl
1863	N	CH	CH	CH	N	2-phenyl-1-(3-pyridylmethyl-carbamoyl)ethyl
1864	N	CH	CH	CH	N	2-phenyl-1-(4-pyridylmethyl-carbamoyl)ethyl
1865	N	CH	CH	CH	N	2-hydroxy-2-phenylethyl
1866	N	CH	CH	CH	N	benzoylmethyl
1867	N	CH	CH	CH	N	1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl
1868	N	CH	CH	CH	N	1-(benzyloxycarbonyl)-2-cyclohexylethyl
1869	N	CH	CH	CH	N	1-(phenoxymethyl)-2-(3-indolyl)ethyl
1870	N	CH	CH	CH	N	2-(2-methoxyphenoxy)ethyl
1871	N	CH	CH	CH	N	1-(benzylcarbamoyl)-2-cyclohexylethyl
1872	N	CH	CH	CH	N	1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl
1873	N	CH	CH	CH	N	1-(phenylcarbamoyl)-2-cyclohexylethyl
1874	N	CH	CH	CH	N	1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
1875	N	CH	CH	CH	N	1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl
1876	N	CH	CH	CH	N	1-(benzylaminomethyl)-2-(3-pyridyl)ethyl
1877	N	CH	CH	CH	N	1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl
1878	N	CH	CH	CH	N	1-(4-pyridylmethylcarbamoyl)-2-(4-fluorophenyl)ethyl
1879	N	CH	CH	CH	N	1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
1880	N	CH	CH	CH	N	1-(benzyloxymethyl)-2-(2-indolyl)ethyl
1881	N	CH	CH	CH	N	1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl

(continued from Table 3)

1882	N	CH	CH	CH	N	1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
1883	N	CH	CH	CH	N	2-hydroxy-2-(4-dimethylamino-phenyl)ethyl
1884	N	CH	CH	CH	N	2-hydroxy-2-(2-quinolyl)ethyl
1885	N	CH	CH	CH	N	2-hydroxy-2-(3-quinolyl)ethyl
1886	N	CH	CH	CH	N	2-hydroxy-2-(4-quinolyl)ethyl
1887	N	CH	CH	CH	N	2-hydroxy-2-(3,5-difluoro-phenyl)ethyl
1888	N	CH	CH	CH	N	1-carboxy-2-cyclohexylethyl
1889	N	CH	CH	CH	N	2-hydroxy-2-(6-quinolyl)ethyl
1890	N	CH	CH	CH	N	2-(benzylamino)-2-phenylethyl
1891	N	CH	CH	CH	N	2-amino-2-(2-naphthyl)propyl
1892	N	CH	CH	CH	N	2-(phenylamino)ethyl
1893	N	CH	CH	CH	N	diphenylmethyl
1894	N	CH	CH	CH	N	2,2-diphenylethyl
1895	N	CH	CH	CH	N	2-phenyl-2-(2-pyridyl)ethyl
1896	N	CH	CH	CH	N	2-phenyl-2-(3-pyridyl)ethyl
1897	N	CH	CH	CH	N	2-phenyl-2-(4-pyridyl)ethyl
1898	N	CH	CH	CH	N	2-phenoxy-2-phenylethyl
1899	N	CH	CH	CH	N	2-(benzyloxy)-2-phenylethyl
1900	CH	N	CH	CH	CH	1-phenyl-3-pyrrolidinyl
1901	CH	N	CH	CH	CH	1-(2-fluorophenyl)-3-pyrrolidinyl
1902	CH	N	CH	CH	CH	1-(3-fluorophenyl)-3-pyrrolidinyl
1903	CH	N	CH	CH	CH	1-(4-fluorophenyl)-3-pyrrolidinyl
1904	CH	N	CH	CH	CH	1-(2-chlorophenyl)-3-pyrrolidinyl
1905	CH	N	CH	CH	CH	1-(3-chlorophenyl)-3-pyrrolidinyl
1906	CH	N	CH	CH	CH	1-(4-chlorophenyl)-3-pyrrolidinyl
1907	CH	N	CH	CH	CH	1-(2-methylphenyl)-3-pyrrolidinyl
1908	CH	N	CH	CH	CH	1-(3-methylphenyl)-3-pyrrolidinyl
1909	CH	N	CH	CH	CH	1-(4-methylphenyl)-3-pyrrolidinyl
1910	CH	N	CH	CH	CH	1-(2-methoxyphenyl)-3-pyrrolidinyl
1911	CH	N	CH	CH	CH	1-(3-methoxyphenyl)-3-pyrrolidinyl
1912	CH	N	CH	CH	CH	1-(4-methoxyphenyl)-3-pyrrolidinyl
1913	CH	N	CH	CH	CH	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
1914	CH	N	CH	CH	CH	1-(3-trifluoromethylphenyl)-3-pyrrolidinyl
1915	CH	N	CH	CH	CH	1-(4-trifluoromethylphenyl)-3-pyrrolidinyl

(continued from Table 3)

1916	CH	N	CH	CH	CH	1-(3,5-difluorophenyl)-3-pyrrolidinyl
1917	CH	N	CH	CH	CH	1-(2-difluoromethoxyphenyl)-3-pyrrolidinyl
1918	CH	N	CH	CH	CH	1-(3-difluoromethoxyphenyl)-3-pyrrolidinyl
1919	CH	N	CH	CH	CH	1-(4-difluoromethoxyphenyl)-3-pyrrolidinyl
1920	CH	N	CH	CH	CH	1-(2-pyridyl)-3-pyrrolidinyl
1921	CH	N	CH	CH	CH	1-(3-pyridyl)-3-pyrrolidinyl
1922	CH	N	CH	CH	CH	1-(4-pyridyl)-3-pyrrolidinyl
1923	CH	N	CH	CH	CH	1-(2-pyrimidinyl)-3-pyrrolidinyl
1924	CH	N	CH	CH	CH	5-oxo-1-phenyl-3-pyrrolidinyl
1925	CH	N	CH	CH	CH	1-phenyl-3-piperidyl
1926	CH	N	CH	CH	CH	1-(2-fluorophenyl)-3-piperidyl
1927	CH	N	CH	CH	CH	1-(3-fluorophenyl)-3-piperidyl
1928	CH	N	CH	CH	CH	1-(4-fluorophenyl)-3-piperidyl
1929	CH	N	CH	CH	CH	1-(2-chlorophenyl)-3-piperidyl
1930	CH	N	CH	CH	CH	1-(3-chlorophenyl)-3-piperidyl
1931	CH	N	CH	CH	CH	1-(4-chlorophenyl)-3-piperidyl
1932	CH	N	CH	CH	CH	1-(2-methylphenyl)-3-piperidyl
1933	CH	N	CH	CH	CH	1-(3-methylphenyl)-3-piperidyl
1934	CH	N	CH	CH	CH	1-(4-methylphenyl)-3-piperidyl
1935	CH	N	CH	CH	CH	1-(2-methoxyphenyl)-3-piperidyl
1936	CH	N	CH	CH	CH	1-(3-methoxyphenyl)-3-piperidyl
1937	CH	N	CH	CH	CH	1-(4-methoxyphenyl)-3-piperidyl
1938	CH	N	CH	CH	CH	1-(2-trifluoromethylphenyl)-3-piperidyl
1939	CH	N	CH	CH	CH	1-(3-trifluoromethylphenyl)-3-piperidyl
1940	CH	N	CH	CH	CH	1-(4-trifluoromethylphenyl)-3-piperidyl
1941	CH	N	CH	CH	CH	1-(3,5-difluorophenyl)-3-piperidyl
1942	CH	N	CH	CH	CH	1-(2-difluoromethoxyphenyl)-3-piperidyl
1943	CH	N	CH	CH	CH	1-(3-difluoromethoxyphenyl)-3-piperidyl
1944	CH	N	CH	CH	CH	1-(4-difluoromethoxyphenyl)-3-piperidyl
1945	CH	N	CH	CH	CH	1-(2-pyridyl)-3-piperidyl
1946	CH	N	CH	CH	CH	1-(3-pyridyl)-3-piperidyl

(continued from Table 3)

1947	CH	N	CH	CH	CH	1-(4-pyridyl)-3-piperidyl
1948	CH	N	CH	CH	CH	1-phenyl-4-piperidyl
1949	CH	N	CH	CH	CH	1-(2-fluorophenyl)-4-piperidyl
1950	CH	N	CH	CH	CH	1-(3-fluorophenyl)-4-piperidyl
1951	CH	N	CH	CH	CH	1-(4-fluorophenyl)-4-piperidyl
1952	CH	N	CH	CH	CH	1-(2-chlorophenyl)-4-piperidyl
1953	CH	N	CH	CH	CH	1-(3-chlorophenyl)-4-piperidyl
1954	CH	N	CH	CH	CH	1-(4-chlorophenyl)-4-piperidyl
1955	CH	N	CH	CH	CH	1-(2-methylphenyl)-4-piperidyl
1956	CH	N	CH	CH	CH	1-(3-methylphenyl)-4-piperidyl
1957	CH	N	CH	CH	CH	1-(4-methylphenyl)-4-piperidyl
1958	CH	N	CH	CH	CH	1-(2-methoxyphenyl)-4-piperidyl
1959	CH	N	CH	CH	CH	1-(3-methoxyphenyl)-4-piperidyl
1960	CH	N	CH	CH	CH	1-(4-methoxyphenyl)-4-piperidyl
1961	CH	N	CH	CH	CH	1-(2-trifluoromethylphenyl)-4-piperidyl
1962	CH	N	CH	CH	CH	1-(3-trifluoromethylphenyl)-4-piperidyl
1963	CH	N	CH	CH	CH	1-(4-trifluoromethylphenyl)-4-piperidyl
1964	CH	N	CH	CH	CH	1-(3,5-difluorophenyl)-4-piperidyl
1965	CH	N	CH	CH	CH	1-(2-difluoromethoxyphenyl)-4-piperidyl
1966	CH	N	CH	CH	CH	1-(3-difluoromethoxyphenyl)-4-piperidyl
1967	CH	N	CH	CH	CH	1-(4-difluoromethoxyphenyl)-4-piperidyl
1968	CH	N	CH	CH	CH	1-(2-pyridyl)-4-piperidyl
1969	CH	N	CH	CH	CH	1-(3-pyridyl)-4-piperidyl
1970	CH	N	CH	CH	CH	1-(4-pyridyl)-4-piperidyl
1971	CH	N	CH	CH	CH	3-hydroxymethyl-1-phenyl-4-piperidyl
1972	CH	N	CH	CH	CH	3-methoxycarbonyl-1-phenyl-4-piperidyl
1973	CH	N	CH	CH	CH	3-ethoxycarbonyl-1-phenyl-4-piperidyl
1974	CH	N	CH	CH	CH	3-isopropoxycarbonyl-1-phenyl-4-piperidyl
1975	CH	N	CH	CH	CH	4-phenylcyclohexyl
1976	CH	N	CH	CH	CH	4-(2-fluorophenyl)cyclohexyl
1977	CH	N	CH	CH	CH	4-(3-fluorophenyl)cyclohexyl
1978	CH	N	CH	CH	CH	4-(4-fluorophenyl)cyclohexyl

(continued from Table 3)

1979	CH	N	CH	CH	CH	4-(2-chlorophenyl)cyclohexyl
1980	CH	N	CH	CH	CH	4-(3-chlorophenyl)cyclohexyl
1981	CH	N	CH	CH	CH	4-(4-chlorophenyl)cyclohexyl
1982	CH	N	CH	CH	CH	4-(2-methylphenyl)cyclohexyl
1983	CH	N	CH	CH	CH	4-(3-methylphenyl)cyclohexyl
1984	CH	N	CH	CH	CH	4-(4-methylphenyl)cyclohexyl
1985	CH	N	CH	CH	CH	4-(2-methoxyphenyl)cyclohexyl
1986	CH	N	CH	CH	CH	4-(3-methoxyphenyl)cyclohexyl
1987	CH	N	CH	CH	CH	4-(4-methoxyphenyl)cyclohexyl
1988	CH	N	CH	CH	CH	4-(2-trifluoromethylphenyl)cyclohexyl
1989	CH	N	CH	CH	CH	4-(3-trifluoromethylphenyl)cyclohexyl
1990	CH	N	CH	CH	CH	4-(4-trifluoromethylphenyl)cyclohexyl
1991	CH	N	CH	CH	CH	4-(3,5-difluorophenyl)cyclohexyl
1992	CH	N	CH	CH	CH	4-(3-acetylphenyl)cyclohexyl
1993	CH	N	CH	CH	CH	4-(3-cyanophenyl)cyclohexyl
1994	CH	N	CH	CH	CH	4-(2-difluoromethoxyphenyl)cyclohexyl
1995	CH	N	CH	CH	CH	4-(3-difluoromethoxyphenyl)cyclohexyl
1996	CH	N	CH	CH	CH	4-(4-difluoromethoxyphenyl)cyclohexyl
1997	CH	N	CH	CH	CH	4-(2-pyridyl)cyclohexyl
1998	CH	N	CH	CH	CH	4-(3-pyridyl)cyclohexyl
1999	CH	N	CH	CH	CH	4-(4-pyridyl)cyclohexyl
2000	CH	N	CH	CH	CH	4-(4-fluoro-3-pyridyl)cyclohexyl
2001	CH	N	CH	CH	CH	4-(3-quinolyl)cyclohexyl
2002	CH	N	CH	CH	CH	4-(3-fluorophenyl)-4-hydroxy-cyclohexyl
2003	CH	N	CH	CH	CH	3-phenylcyclohexyl
2004	CH	N	CH	CH	CH	3-phenylcyclopentyl
2005	CH	N	CH	CH	CH	6-phenyl-3-tetrahydropyranyl
2006	CH	N	CH	CH	CH	6-(3-fluorophenyl)-3-tetrahydropyranyl
2007	CH	N	CH	CH	CH	2-phenylcyclopropyl
2008	CH	N	CH	CH	CH	2-(2-pyridyl)cyclopropyl
2009	CH	N	CH	CH	CH	2-(3-pyridyl)cyclopropyl
2010	CH	N	CH	CH	CH	2-(4-pyridyl)cyclopropyl
2011	CH	N	CH	CH	CH	2-(3-fluorophenyl)cyclopropyl

(continued from Table 3)

2012	CH	N	CH	CH	CH	2-indanyl
2013	CH	N	CH	CH	CH	2-tetrahydronaphthyl
2014	CH	N	CH	CH	CH	6-methoxy-2-tetrahydronaphthyl
2015	CH	N	CH	CH	CH	benzyl
2016	CH	N	CH	CH	CH	phenethyl
2017	CH	N	CH	CH	CH	3-phenylpropyl
2018	CH	N	CH	CH	CH	4-phenylbutyl
2019	CH	N	CH	CH	CH	2-methoxyphenethyl
2020	CH	N	CH	CH	CH	3-methoxyphenethyl
2021	CH	N	CH	CH	CH	4-methoxyphenethyl
2022	CH	N	CH	CH	CH	4-fluorophenethyl
2023	CH	N	CH	CH	CH	4-bromophenethyl
2024	CH	N	CH	CH	CH	4-chlorophenethyl
2025	CH	N	CH	CH	CH	3-trifluoromethylphenethyl
2026	CH	N	CH	CH	CH	3,4-dimethoxyphenethyl
2027	CH	N	CH	CH	CH	3-propoxyphenethyl
2028	CH	N	CH	CH	CH	3,5-difluorophenethyl
2029	CH	N	CH	CH	CH	4-dimethylaminophenethyl
2030	CH	N	CH	CH	CH	3-difluoromethoxyphenethyl
2031	CH	N	CH	CH	CH	2-methylphenethyl
2032	CH	N	CH	CH	CH	4-acetylphenethyl
2033	CH	N	CH	CH	CH	4-dimethylamino-2-methoxyphenethyl
2034	CH	N	CH	CH	CH	cyclohexylethyl
2035	CH	N	CH	CH	CH	2-(2-pyridyl)ethyl
2036	CH	N	CH	CH	CH	2-(3-pyridyl)ethyl
2037	CH	N	CH	CH	CH	2-(4-pyridyl)ethyl
2038	CH	N	CH	CH	CH	2-(2-quinolyl)ethyl
2039	CH	N	CH	CH	CH	2-(3-quinolyl)ethyl
2040	CH	N	CH	CH	CH	2-(4-quinolyl)ethyl
2041	CH	N	CH	CH	CH	2-(6-quinolyl)ethyl
2042	CH	N	CH	CH	CH	2-(2-indolyl)ethyl
2043	CH	N	CH	CH	CH	2-(3-indolyl)ethyl
2044	CH	N	CH	CH	CH	2-(7-aza-3-indolyl)ethyl
2045	CH	N	CH	CH	CH	2-(benzimidazolyl)ethyl
2046	CH	N	CH	CH	CH	2-(benzoxazolyl)ethyl
2047	CH	N	CH	CH	CH	2-(benzothiazolyl)ethyl
2048	CH	N	CH	CH	CH	2-(1-naphthyl)ethyl
2049	CH	N	CH	CH	CH	2-(2-naphthyl)ethyl
2050	CH	N	CH	CH	CH	1-(hydroxymethyl)-2-phenylethyl

(continued from Table 3)

2051	CH	N	CH	CH	CH	1-(methoxycarbonyl)-2-phenylethyl
2052	CH	N	CH	CH	CH	1-(ethoxycarbonyl)-2-phenylethyl
2053	CH	N	CH	CH	CH	1-carboxy-2-phenylethyl
2054	CH	N	CH	CH	CH	1-(benzyloxycarbonyl)-2-phenylethyl
2055	CH	N	CH	CH	CH	1-(phenoxymethyl)-2-phenylethyl
2056	CH	N	CH	CH	CH	1-(benzyloxymethyl)-2-phenylethyl
2057	CH	N	CH	CH	CH	1-(benzylcarbamoyl)-2-phenylethyl
2058	CH	N	CH	CH	CH	1-(N-methylbenzylcarbamoyl)-2-phenylethyl
2059	CH	N	CH	CH	CH	1-(phenylcarbamoyl)-2-phenylethyl
2060	CH	N	CH	CH	CH	1-(N-methylphenylcarbamoyl)-2-phenylethyl
2061	CH	N	CH	CH	CH	1-(N-benzylaminomethyl)-2-phenylethyl
2062	CH	N	CH	CH	CH	1-(N-benzyl-N-methylaminomethyl)-2-phenylethyl
2063	CH	N	CH	CH	CH	1-(anilinomethyl)-2-phenylethyl
2064	CH	N	CH	CH	CH	1-(N-methylanilinomethyl)-2-phenylethyl
2065	CH	N	CH	CH	CH	1-(N-methylaminomethyl)-2-phenylethyl
2066	CH	N	CH	CH	CH	1-(N-ethylaminomethyl)-2-phenylethyl
2067	CH	N	CH	CH	CH	1-(N-isobutylaminomethyl)-2-phenylethyl
2068	CH	N	CH	CH	CH	1-(N-cyclopropylmethylamino-methyl)-2-phenylethyl
2069	CH	N	CH	CH	CH	1-(aminomethyl)-2-phenylethyl
2070	CH	N	CH	CH	CH	1- benzyl-2-(2-pyridylmethyl-2-amino)ethyl
2071	CH	N	CH	CH	CH	1- benzyl-2-(3-pyridylmethyl-2-amino)ethyl
2072	CH	N	CH	CH	CH	1- benzyl-2-(4-pyridylmethyl-2-amino)ethyl
2073	CH	N	CH	CH	CH	2-phenyl-1-(2-pyridylmethyl-carbamoyl)ethyl
2074	CH	N	CH	CH	CH	2-phenyl-1-(3-pyridylmethyl-carbamoyl)ethyl
2075	CH	N	CH	CH	CH	2-phenyl-1-(4-pyridylmethyl-carbamoyl)ethyl
2076	CH	N	CH	CH	CH	2-hydroxy-2-phenylethyl
2077	CH	N	CH	CH	CH	benzoylmethyl

(continued from Table 3)

2078	CH	N	CH	CH	CH	1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl
2079	CH	N	CH	CH	CH	1-(benzyloxycarbonyl)-2-cyclohexylethyl
2080	CH	N	CH	CH	CH	1-(phenoxymethyl)-2-(3-indolyl)ethyl
2081	CH	N	CH	CH	CH	2-(2-methoxyphenoxy)ethyl
2082	CH	N	CH	CH	CH	1-(benzylcarbamoyl)-2-cyclohexylethyl
2083	CH	N	CH	CH	CH	1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl
2084	CH	N	CH	CH	CH	1-(phenylcarbamoyl)-2-cyclohexylethyl
2085	CH	N	CH	CH	CH	1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
2086	CH	N	CH	CH	CH	1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl
2087	CH	N	CH	CH	CH	1-(benzylaminomethyl)-2-(3-pyridyl)ethyl
2088	CH	N	CH	CH	CH	1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl
2089	CH	N	CH	CH	CH	1-(4-pyridylmethylcarbamoyl)-2-(4-fluorophenyl)ethyl
2090	CH	N	CH	CH	CH	1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
2091	CH	N	CH	CH	CH	1-(benzyloxymethyl)-2-(2-indolyl)ethyl
2092	CH	N	CH	CH	CH	1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl
2093	CH	N	CH	CH	CH	1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
2094	CH	N	CH	CH	CH	2-hydroxy-2-(4-dimethylaminophenyl)ethyl
2095	CH	N	CH	CH	CH	2-hydroxy-2-(2-quinolyl)ethyl
2096	CH	N	CH	CH	CH	2-hydroxy-2-(3-quinolyl)ethyl
2097	CH	N	CH	CH	CH	2-hydroxy-2-(4-quinolyl)ethyl
2098	CH	N	CH	CH	CH	2-hydroxy-2-(3,5-difluorophenyl)ethyl
2099	CH	N	CH	CH	CH	1-carboxy-2-cyclohexylethyl
2100	CH	N	CH	CH	CH	2-hydroxy-2-(6-quinolyl)ethyl
2101	CH	N	CH	CH	CH	2-(benzylamino)-2-phenylethyl
2102	CH	N	CH	CH	CH	2-amino-2-(2-naphthyl)propyl
2103	CH	N	CH	CH	CH	2-(phenylamino)ethyl
2104	CH	N	CH	CH	CH	diphenylmethyl

(continued from Table 3)

2105	CH	N	CH	CH	CH	2,2-diphenylethyl
2106	CH	N	CH	CH	CH	2-phenyl-2-(2-pyridyl)ethyl
2107	CH	N	CH	CH	CH	2-phenyl-2-(3-pyridyl)ethyl
2108	CH	N	CH	CH	CH	2-phenyl-2-(4-pyridyl)ethyl
2109	CH	N	CH	CH	CH	2-phenoxy-2-phenylethyl
2110	CH	N	CH	CH	CH	2-(benzyloxy)-2-phenylethyl
2111	CH	N	CH	CH	N	1-phenyl-3-pyrrolidinyl
2112	CH	N	CH	CH	N	1-(2-fluorophenyl)-3-pyrrolidinyl
2113	CH	N	CH	CH	N	1-(3-fluorophenyl)-3-pyrrolidinyl
2114	CH	N	CH	CH	N	1-(4-fluorophenyl)-3-pyrrolidinyl
2115	CH	N	CH	CH	N	1-(2-chlorophenyl)-3-pyrrolidinyl
2116	CH	N	CH	CH	N	1-(3-chlorophenyl)-3-pyrrolidinyl
2117	CH	N	CH	CH	N	1-(4-chlorophenyl)-3-pyrrolidinyl
2118	CH	N	CH	CH	N	1-(2-methylphenyl)-3-pyrrolidinyl
2119	CH	N	CH	CH	N	1-(3-methylphenyl)-3-pyrrolidinyl
2120	CH	N	CH	CH	N	1-(4-methylphenyl)-3-pyrrolidinyl
2121	CH	N	CH	CH	N	1-(2-methoxyphenyl)-3-pyrrolidinyl
2122	CH	N	CH	CH	N	1-(3-methoxyphenyl)-3-pyrrolidinyl
2123	CH	N	CH	CH	N	1-(4-methoxyphenyl)-3-pyrrolidinyl
2124	CH	N	CH	CH	N	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
2125	CH	N	CH	CH	N	1-(3-trifluoromethylphenyl)-3-pyrrolidinyl
2126	CH	N	CH	CH	N	1-(4-trifluoromethylphenyl)-3-pyrrolidinyl
2127	CH	N	CH	CH	N	1-(3,5-difluorophenyl)-3-pyrrolidinyl
2128	CH	N	CH	CH	N	1-(2-difluoromethoxyphenyl)-3-pyrrolidinyl
2129	CH	N	CH	CH	N	1-(3-difluoromethoxyphenyl)-3-pyrrolidinyl
2130	CH	N	CH	CH	N	1-(4-difluoromethoxyphenyl)-3-pyrrolidinyl
2131	CH	N	CH	CH	N	1-(2-pyridyl)-3-pyrrolidinyl
2132	CH	N	CH	CH	N	1-(3-pyridyl)-3-pyrrolidinyl
2133	CH	N	CH	CH	N	1-(4-pyridyl)-3-pyrrolidinyl
2134	CH	N	CH	CH	N	1-(2-pyrimidinyl)-3-pyrrolidinyl
2135	CH	N	CH	CH	N	5-oxo-1-phenyl-3-pyrrolidinyl
2136	CH	N	CH	CH	N	1-phenyl-3-piperidyl
2137	CH	N	CH	CH	N	1-(2-fluorophenyl)-3-piperidyl
2138	CH	N	CH	CH	N	1-(3-fluorophenyl)-3-piperidyl

(continued from Table 3)

2139	CH	N	CH	CH	N	1-(4-fluorophenyl)-3-piperidyl
2140	CH	N	CH	CH	N	1-(2-chlorophenyl)-3-piperidyl
2141	CH	N	CH	CH	N	1-(3-chlorophenyl)-3-piperidyl
2142	CH	N	CH	CH	N	1-(4-chlorophenyl)-3-piperidyl
2143	CH	N	CH	CH	N	1-(2-methylphenyl)-3-piperidyl
2144	CH	N	CH	CH	N	1-(3-methylphenyl)-3-piperidyl
2145	CH	N	CH	CH	N	1-(4-methylphenyl)-3-piperidyl
2146	CH	N	CH	CH	N	1-(2-methoxyphenyl)-3-piperidyl
2147	CH	N	CH	CH	N	1-(3-methoxyphenyl)-3-piperidyl
2148	CH	N	CH	CH	N	1-(4-methoxyphenyl)-3-piperidyl
2149	CH	N	CH	CH	N	1-(2-trifluoromethylphenyl)-3-piperidyl
2150	CH	N	CH	CH	N	1-(3-trifluoromethylphenyl)-3-piperidyl
2151	CH	N	CH	CH	N	1-(4-trifluoromethylphenyl)-3-piperidyl
2152	CH	N	CH	CH	N	1-(3,5-difluorophenyl)-3-piperidyl
2153	CH	N	CH	CH	N	1-(2-difluoromethoxyphenyl)-3-piperidyl
2154	CH	N	CH	CH	N	1-(3-difluoromethoxyphenyl)-3-piperidyl
2155	CH	N	CH	CH	N	1-(4-difluoromethoxyphenyl)-3-piperidyl
2156	CH	N	CH	CH	N	1-(2-pyridyl)-3-piperidyl
2157	CH	N	CH	CH	N	1-(3-pyridyl)-3-piperidyl
2158	CH	N	CH	CH	N	1-(4-pyridyl)-3-piperidyl
2159	CH	N	CH	CH	N	1-phenyl-4-piperidyl
2160	CH	N	CH	CH	N	1-(2-fluorophenyl)-4-piperidyl
2161	CH	N	CH	CH	N	1-(3-fluorophenyl)-4-piperidyl
2162	CH	N	CH	CH	N	1-(4-fluorophenyl)-4-piperidyl
2163	CH	N	CH	CH	N	1-(2-chlorophenyl)-4-piperidyl
2164	CH	N	CH	CH	N	1-(3-chlorophenyl)-4-piperidyl
2165	CH	N	CH	CH	N	1-(4-chlorophenyl)-4-piperidyl
2166	CH	N	CH	CH	N	1-(2-methylphenyl)-4-piperidyl
2167	CH	N	CH	CH	N	1-(3-methylphenyl)-4-piperidyl
2168	CH	N	CH	CH	N	1-(4-methylphenyl)-4-piperidyl
2169	CH	N	CH	CH	N	1-(2-methoxyphenyl)-4-piperidyl
2170	CH	N	CH	CH	N	1-(3-methoxyphenyl)-4-piperidyl
2171	CH	N	CH	CH	N	1-(4-methoxyphenyl)-4-piperidyl
2172	CH	N	CH	CH	N	1-(2-trifluoromethylphenyl)-4-piperidyl

(continued from Table 3)

2173	CH	N	CH	CH	N	1-(3-trifluoromethylphenyl)-4-piperidyl
2174	CH	N	CH	CH	N	1-(4-trifluoromethylphenyl)-4-piperidyl
2175	CH	N	CH	CH	N	1-(3,5-difluorophenyl)-4-piperidyl
2176	CH	N	CH	CH	N	1-(2-difluoromethoxyphenyl)-4-piperidyl
2177	CH	N	CH	CH	N	1-(3-difluoromethoxyphenyl)-4-piperidyl
2178	CH	N	CH	CH	N	1-(4-difluoromethoxyphenyl)-4-piperidyl
2179	CH	N	CH	CH	N	1-(2-pyridyl)-4-piperidyl
2180	CH	N	CH	CH	N	1-(3-pyridyl)-4-piperidyl
2181	CH	N	CH	CH	N	1-(4-pyridyl)-4-piperidyl
2182	CH	N	CH	CH	N	3-hydroxymethyl-1-phenyl-4-piperidyl
2183	CH	N	CH	CH	N	3-methoxycarbonyl-1-phenyl-4-piperidyl
2184	CH	N	CH	CH	N	3-ethoxycarbonyl-1-phenyl-4-piperidyl
2185	CH	N	CH	CH	N	3-isopropoxycarbonyl-1-phenyl-4-piperidyl
2186	CH	N	CH	CH	N	4-phenylcyclohexyl
2187	CH	N	CH	CH	N	4-(2-fluorophenyl)cyclohexyl
2188	CH	N	CH	CH	N	4-(3-fluorophenyl)cyclohexyl
2189	CH	N	CH	CH	N	4-(4-fluorophenyl)cyclohexyl
2190	CH	N	CH	CH	N	4-(2-chlorophenyl)cyclohexyl
2191	CH	N	CH	CH	N	4-(3-chlorophenyl)cyclohexyl
2192	CH	N	CH	CH	N	4-(4-chlorophenyl)cyclohexyl
2193	CH	N	CH	CH	N	4-(2-methylphenyl)cyclohexyl
2194	CH	N	CH	CH	N	4-(3-methylphenyl)cyclohexyl
2195	CH	N	CH	CH	N	4-(4-methylphenyl)cyclohexyl
2196	CH	N	CH	CH	N	4-(2-methoxyphenyl)cyclohexyl
2197	CH	N	CH	CH	N	4-(3-methoxyphenyl)cyclohexyl
2198	CH	N	CH	CH	N	4-(4-methoxyphenyl)cyclohexyl
2199	CH	N	CH	CH	N	4-(2-trifluoromethylphenyl)cyclohexyl
2200	CH	N	CH	CH	N	4-(3-trifluoromethylphenyl)cyclohexyl
2201	CH	N	CH	CH	N	4-(4-trifluoromethylphenyl)cyclohexyl
2202	CH	N	CH	CH	N	4-(3,5-difluorophenyl)cyclohexyl

(continued from Table 3)

2203	CH	N	CH	CH	N	4-(3-acetylphenyl)cyclohexyl
2204	CH	N	CH	CH	N	4-(3-cyanophenyl)cyclohexyl
2205	CH	N	CH	CH	N	4-(2-difluoromethoxyphenyl)cyclohexyl
2206	CH	N	CH	CH	N	4-(3-difluoromethoxyphenyl)cyclohexyl
2207	CH	N	CH	CH	N	4-(4-difluoromethoxyphenyl)cyclohexyl
2208	CH	N	CH	CH	N	4-(2-pyridyl)cyclohexyl
2209	CH	N	CH	CH	N	4-(3-pyridyl)cyclohexyl
2210	CH	N	CH	CH	N	4-(4-pyridyl)cyclohexyl
2211	CH	N	CH	CH	N	4-(4-fluoro-3-pyridyl)cyclohexyl
2212	CH	N	CH	CH	N	4-(3-quinolyl)cyclohexyl
2213	CH	N	CH	CH	N	4-(3-fluorophenyl)-4-hydroxycyclohexyl
2214	CH	N	CH	CH	N	3-phenylcyclohexyl
2215	CH	N	CH	CH	N	3-phenylcyclopentyl
2216	CH	N	CH	CH	N	6-phenyl-3-tetrahydropyranyl
2217	CH	N	CH	CH	N	6-(3-fluorophenyl)-3-tetrahydropyranyl
2218	CH	N	CH	CH	N	2-phenylcyclopropyl
2219	CH	N	CH	CH	N	2-(2-pyridyl)cyclopropyl
2220	CH	N	CH	CH	N	2-(3-pyridyl)cyclopropyl
2221	CH	N	CH	CH	N	2-(4-pyridyl)cyclopropyl
2222	CH	N	CH	CH	N	2-(3-fluorophenyl)cyclopropyl
2223	CH	N	CH	CH	N	2-indanyl
2224	CH	N	CH	CH	N	2-tetrahydronaphthyl
2225	CH	N	CH	CH	N	6-methoxy-2-tetrahydronaphthyl
2226	CH	N	CH	CH	N	benzyl
2227	CH	N	CH	CH	N	phenethyl
2228	CH	N	CH	CH	N	3-phenylpropyl
2229	CH	N	CH	CH	N	4-phenylbutyl
2230	CH	N	CH	CH	N	2-methoxyphenethyl
2231	CH	N	CH	CH	N	3-methoxyphenethyl
2232	CH	N	CH	CH	N	4-methoxyphenethyl
2233	CH	N	CH	CH	N	4-fluorophenethyl
2234	CH	N	CH	CH	N	4-bromophenethyl
2235	CH	N	CH	CH	N	4-chlorophenethyl
2236	CH	N	CH	CH	N	3-trifluoromethylphenethyl
2237	CH	N	CH	CH	N	3,4-dimethoxyphenethyl

(continued from Table 3)

2238	CH	N	CH	CH	N	3-propoxyphenethyl
2239	CH	N	CH	CH	N	3,5-difluorophenethyl
2240	CH	N	CH	CH	N	4-dimethylaminophenethyl
2241	CH	N	CH	CH	N	3-difluoromethoxyphenethyl
2242	CH	N	CH	CH	N	2-methylphenethyl
2243	CH	N	CH	CH	N	4-acetylphenethyl
2244	CH	N	CH	CH	N	4-dimethylamino-2-methoxyphenethyl
2245	CH	N	CH	CH	N	cyclohexylethyl
2246	CH	N	CH	CH	N	2-(2-pyridyl)ethyl
2247	CH	N	CH	CH	N	2-(3-pyridyl)ethyl
2248	CH	N	CH	CH	N	2-(4-pyridyl)ethyl
2249	CH	N	CH	CH	N	2-(2-quinolyl)ethyl
2250	CH	N	CH	CH	N	2-(3-quinolyl)ethyl
2251	CH	N	CH	CH	N	2-(4-quinolyl)ethyl
2252	CH	N	CH	CH	N	2-(6-quinolyl)ethyl
2253	CH	N	CH	CH	N	2-(2-indolyl)ethyl
2254	CH	N	CH	CH	N	2-(3-indolyl)ethyl
2255	CH	N	CH	CH	N	2-(7-aza-3-indolyl)ethyl
2256	CH	N	CH	CH	N	2-(benzimidazolyl)ethyl
2257	CH	N	CH	CH	N	2-(benzoxazolyl)ethyl
2258	CH	N	CH	CH	N	2-(benzothiazolyl)ethyl
2259	CH	N	CH	CH	N	2-(1-naphthyl)ethyl
2260	CH	N	CH	CH	N	2-(2-naphthyl)ethyl
2261	CH	N	CH	CH	N	1-(hydroxymethyl)-2-phenylethyl
2262	CH	N	CH	CH	N	1-(methoxycarbonyl)-2-phenylethyl
2263	CH	N	CH	CH	N	1-(ethoxycarbonyl)-2-phenylethyl
2264	CH	N	CH	CH	N	1-carboxy-2-phenylethyl
2265	CH	N	CH	CH	N	1-(benzyloxycarbonyl)-2-phenylethyl
2266	CH	N	CH	CH	N	1-(phenoxymethyl)-2-phenylethyl
2267	CH	N	CH	CH	N	1-(benzyloxymethyl)-2-phenylethyl
2268	CH	N	CH	CH	N	1-(benzylcarbamoyl)-2-phenylethyl
2269	CH	N	CH	CH	N	1-(N-methylbenzylcarbamoyl)-2-phenylethyl
2270	CH	N	CH	CH	N	1-(phenylcarbamoyl)-2-phenylethyl
2271	CH	N	CH	CH	N	1-(N-methylphenylcarbamoyl)-2-phenylethyl
2272	CH	N	CH	CH	N	1-(N-benzylaminomethyl)-2-phenylethyl
2273	CH	N	CH	CH	N	1-(N-benzyl-N-methylaminomethyl)-2-phenylethyl

(continued from Table 3)

2274	CH	N	CH	CH	N	1-(anilinomethyl)-2-phenylethyl
2275	CH	N	CH	CH	N	1-(N-methylanilinomethyl)-2-phenylethyl
2276	CH	N	CH	CH	N	1-(N-methylaminomethyl)-2-phenylethyl
2277	CH	N	CH	CH	N	1-(N-ethylaminomethyl)-2-phenylethyl
2278	CH	N	CH	CH	N	1-(N-isobutylaminomethyl)-2-phenylethyl
2279	CH	N	CH	CH	N	1-(N-cyclopropylmethylamino-methyl)-2-phenylethyl
2280	CH	N	CH	CH	N	1-(aminomethyl)-2-phenylethyl
2281	CH	N	CH	CH	N	1-benzyl-2-(2-pyridylmethyl-amino)ethyl
2282	CH	N	CH	CH	N	1-benzyl-2-(3-pyridylmethyl-amino)ethyl
2283	CH	N	CH	CH	N	1-benzyl-2-(4-pyridylmethyl-amino)ethyl
2284	CH	N	CH	CH	N	2-phenyl-1-(2-pyridylmethyl-carbamoyl)ethyl
2285	CH	N	CH	CH	N	2-phenyl-1-(3-pyridylmethyl-carbamoyl)ethyl
2286	CH	N	CH	CH	N	2-phenyl-1-(4-pyridylmethyl-carbamoyl)ethyl
2287	CH	N	CH	CH	N	2-hydroxy-2-phenylethyl
2288	CH	N	CH	CH	N	benzoylmethyl
2289	CH	N	CH	CH	N	1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl
2290	CH	N	CH	CH	N	1-(benzyloxycarbonyl)-2-cyclohexylethyl
2291	CH	N	CH	CH	N	1-(phenoxymethyl)-2-(3-indolyl)ethyl
2292	CH	N	CH	CH	N	2-(2-methoxyphenoxy)ethyl
2293	CH	N	CH	CH	N	1-(benzylcarbamoyl)-2-cyclohexylethyl
2294	CH	N	CH	CH	N	1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl
2295	CH	N	CH	CH	N	1-(phenylcarbamoyl)-2-cyclohexylethyl
2296	CH	N	CH	CH	N	1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
2297	CH	N	CH	CH	N	1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl
2298	CH	N	CH	CH	N	1-(benzylaminomethyl)-2-(3-pyridyl)ethyl

(continued from Table 3)

2299	CH	N	CH	CH	N	1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl
2300	CH	N	CH	CH	N	1-(4-pyridylmethylcarbamoyl)-2-(4-fluorophenyl)ethyl
2301	CH	N	CH	CH	N	1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
2302	CH	N	CH	CH	N	1-(benzyloxymethyl)-2-(2-indolyl)ethyl
2303	CH	N	CH	CH	N	1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl
2304	CH	N	CH	CH	N	1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
2305	CH	N	CH	CH	N	2-hydroxy-2-(4-dimethylamino-phenyl)ethyl
2306	CH	N	CH	CH	N	2-hydroxy-2-(2-quinolyl)ethyl
2307	CH	N	CH	CH	N	2-hydroxy-2-(3-quinolyl)ethyl
2308	CH	N	CH	CH	N	2-hydroxy-2-(4-quinolyl)ethyl
2309	CH	N	CH	CH	N	2-hydroxy-2-(3,5-difluoro-phenyl)ethyl
2310	CH	N	CH	CH	N	1-carboxy-2-cyclohexylethyl
2311	CH	N	CH	CH	N	2-hydroxy-2-(6-quinolyl)ethyl
2312	CH	N	CH	CH	N	2-(benzylamino)-2-phenylethyl
2313	CH	N	CH	CH	N	2-amino-2-(2-naphthyl)propyl
2314	CH	N	CH	CH	N	2-(phenylamino)ethyl
2315	CH	N	CH	CH	N	diphenylmethyl
2316	CH	N	CH	CH	N	2,2-diphenylethyl
2317	CH	N	CH	CH	N	2-phenyl-2-(2-pyridyl)ethyl
2318	CH	N	CH	CH	N	2-phenyl-2-(3-pyridyl)ethyl
2319	CH	N	CH	CH	N	2-phenyl-2-(4-pyridyl)ethyl
2320	CH	N	CH	CH	N	2-phenoxy-2-phenylethyl
2321	CH	N	CH	CH	N	2-(benzyloxy)-2-phenylethyl
2322	CH	CH	N	CH	CH	1-phenyl-3-pyrrolidinyl
2323	CH	CH	N	CH	CH	1-(2-fluorophenyl)-3-pyrrolidinyl
2324	CH	CH	N	CH	CH	1-(3-fluorophenyl)-3-pyrrolidinyl
2325	CH	CH	N	CH	CH	1-(4-fluorophenyl)-3-pyrrolidinyl
2326	CH	CH	N	CH	CH	1-(2-chlorophenyl)-3-pyrrolidinyl
2327	CH	CH	N	CH	CH	1-(3-chlorophenyl)-3-pyrrolidinyl
2328	CH	CH	N	CH	CH	1-(4-chlorophenyl)-3-pyrrolidinyl
2329	CH	CH	N	CH	CH	1-(2-methylphenyl)-3-pyrrolidinyl
2330	CH	CH	N	CH	CH	1-(3-methylphenyl)-3-pyrrolidinyl
2331	CH	CH	N	CH	CH	1-(4-methylphenyl)-3-pyrrolidinyl
2332	CH	CH	N	CH	CH	1-(2-methoxyphenyl)-3-pyrrolidinyl

(continued from Table 3)

2333	CH	CH	N	CH	CH	1-(3-methoxyphenyl)-3-pyrrolidinyl
2334	CH	CH	N	CH	CH	1-(4-methoxyphenyl)-3-pyrrolidinyl
2335	CH	CH	N	CH	CH	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
2336	CH	CH	N	CH	CH	1-(3-trifluoromethylphenyl)-3-pyrrolidinyl
2337	CH	CH	N	CH	CH	1-(4-trifluoromethylphenyl)-3-pyrrolidinyl
2338	CH	CH	N	CH	CH	1-(3,5-difluorophenyl)-3-pyrrolidinyl
2339	CH	CH	N	CH	CH	1-(2-difluoromethoxyphenyl)-3-pyrrolidinyl
2340	CH	CH	N	CH	CH	1-(3-difluoromethoxyphenyl)-3-pyrrolidinyl
2341	CH	CH	N	CH	CH	1-(4-difluoromethoxyphenyl)-3-pyrrolidinyl
2342	CH	CH	N	CH	CH	1-(2-pyridyl)-3-pyrrolidinyl
2343	CH	CH	N	CH	CH	1-(3-pyridyl)-3-pyrrolidinyl
2344	CH	CH	N	CH	CH	1-(4-pyridyl)-3-pyrrolidinyl
2345	CH	CH	N	CH	CH	1-(2-pyrimidinyl)-3-pyrrolidinyl
2346	CH	CH	N	CH	CH	5-oxo-1-phenyl-3-pyrrolidinyl
2347	CH	CH	N	CH	CH	1-phenyl-3-piperidyl
2348	CH	CH	N	CH	CH	1-(2-fluorophenyl)-3-piperidyl
2349	CH	CH	N	CH	CH	1-(3-fluorophenyl)-3-piperidyl
2350	CH	CH	N	CH	CH	1-(4-fluorophenyl)-3-piperidyl
2351	CH	CH	N	CH	CH	1-(2-chlorophenyl)-3-piperidyl
2352	CH	CH	N	CH	CH	1-(3-chlorophenyl)-3-piperidyl
2353	CH	CH	N	CH	CH	1-(4-chlorophenyl)-3-piperidyl
2354	CH	CH	N	CH	CH	1-(2-methylphenyl)-3-piperidyl
2355	CH	CH	N	CH	CH	1-(3-methylphenyl)-3-piperidyl
2356	CH	CH	N	CH	CH	1-(4-methylphenyl)-3-piperidyl
2357	CH	CH	N	CH	CH	1-(2-methoxyphenyl)-3-piperidyl
2358	CH	CH	N	CH	CH	1-(3-methoxyphenyl)-3-piperidyl
2359	CH	CH	N	CH	CH	1-(4-methoxyphenyl)-3-piperidyl
2360	CH	CH	N	CH	CH	1-(2-trifluoromethylphenyl)-3-piperidyl
2361	CH	CH	N	CH	CH	1-(3-trifluoromethylphenyl)-3-piperidyl
2362	CH	CH	N	CH	CH	1-(4-trifluoromethylphenyl)-3-piperidyl

(continued from Table 3)

2363	CH	CH	N	CH	CH	1-(3,5-difluorophenyl)-3-piperidyl
2364	CH	CH	N	CH	CH	1-(2-difluoromethoxyphenyl)-3-piperidyl
2365	CH	CH	N	CH	CH	1-(3-difluoromethoxyphenyl)-3-piperidyl
2366	CH	CH	N	CH	CH	1-(4-difluoromethoxyphenyl)-3-piperidyl
2367	CH	CH	N	CH	CH	1-(2-pyridyl)-3-piperidyl
2368	CH	CH	N	CH	CH	1-(3-pyridyl)-3-piperidyl
2369	CH	CH	N	CH	CH	1-(4-pyridyl)-3-piperidyl
2370	CH	CH	N	CH	CH	1-phenyl-4-piperidyl
2371	CH	CH	N	CH	CH	1-(2-fluorophenyl)-4-piperidyl
2372	CH	CH	N	CH	CH	1-(3-fluorophenyl)-4-piperidyl
2373	CH	CH	N	CH	CH	1-(4-fluorophenyl)-4-piperidyl
2374	CH	CH	N	CH	CH	1-(2-chlorophenyl)-4-piperidyl
2375	CH	CH	N	CH	CH	1-(3-chlorophenyl)-4-piperidyl
2376	CH	CH	N	CH	CH	1-(4-chlorophenyl)-4-piperidyl
2377	CH	CH	N	CH	CH	1-(2-methylphenyl)-4-piperidyl
2378	CH	CH	N	CH	CH	1-(3-methylphenyl)-4-piperidyl
2379	CH	CH	N	CH	CH	1-(4-methylphenyl)-4-piperidyl
2380	CH	CH	N	CH	CH	1-(2-methoxyphenyl)-4-piperidyl
2381	CH	CH	N	CH	CH	1-(3-methoxyphenyl)-4-piperidyl
2382	CH	CH	N	CH	CH	1-(4-methoxyphenyl)-4-piperidyl
2383	CH	CH	N	CH	CH	1-(2-trifluoromethylphenyl)-4-piperidyl
2384	CH	CH	N	CH	CH	1-(3-trifluoromethylphenyl)-4-piperidyl
2385	CH	CH	N	CH	CH	1-(4-trifluoromethylphenyl)-4-piperidyl
2386	CH	CH	N	CH	CH	1-(3,5-difluorophenyl)-4- piperidyl
2387	CH	CH	N	CH	CH	1-(2-difluoromethoxyphenyl)-4-piperidyl
2388	CH	CH	N	CH	CH	1-(3-difluoromethoxyphenyl)-4-piperidyl
2389	CH	CH	N	CH	CH	1-(4-difluoromethoxyphenyl)-4-piperidyl
2390	CH	CH	N	CH	CH	1-(2-pyridyl)-4-piperidyl
2391	CH	CH	N	CH	CH	1-(3-pyridyl)-4-piperidyl
2392	CH	CH	N	CH	CH	1-(4-pyridyl)-4-piperidyl
2393	CH	CH	N	CH	CH	3-hydroxymethyl-1-phenyl-4-piperidyl

(continued from Table 3)

2394	CH	CH	N	CH	CH	3-methoxycarbonyl-1-phenyl-4-piperidyl
2395	CH	CH	N	CH	CH	3-ethoxycarbonyl-1-phenyl-4-piperidyl
2396	CH	CH	N	CH	CH	3-isopropoxycarbonyl-1-phenyl-4-piperidyl
2397	CH	CH	N	CH	CH	4-phenylcyclohexyl
2398	CH	CH	N	CH	CH	4-(2-fluorophenyl)cyclohexyl
2399	CH	CH	N	CH	CH	4-(3-fluorophenyl)cyclohexyl
2400	CH	CH	N	CH	CH	4-(4-fluorophenyl)cyclohexyl
2401	CH	CH	N	CH	CH	4-(2-chlorophenyl)cyclohexyl
2402	CH	CH	N	CH	CH	4-(3-chlorophenyl)cyclohexyl
2403	CH	CH	N	CH	CH	4-(4-chlorophenyl)cyclohexyl
2404	CH	CH	N	CH	CH	4-(2-methylphenyl)cyclohexyl
2405	CH	CH	N	CH	CH	4-(3-methylphenyl)cyclohexyl
2406	CH	CH	N	CH	CH	4-(4-methylphenyl)cyclohexyl
2407	CH	CH	N	CH	CH	4-(2-methoxyphenyl)cyclohexyl
2408	CH	CH	N	CH	CH	4-(3-methoxyphenyl)cyclohexyl
2409	CH	CH	N	CH	CH	4-(4-methoxyphenyl)cyclohexyl
2410	CH	CH	N	CH	CH	4-(2-trifluoromethylphenyl)cyclohexyl
2411	CH	CH	N	CH	CH	4-(3-trifluoromethylphenyl)cyclohexyl
2412	CH	CH	N	CH	CH	4-(4-trifluoromethylphenyl)cyclohexyl
2413	CH	CH	N	CH	CH	4-(3,5-difluorophenyl)cyclohexyl
2414	CH	CH	N	CH	CH	4-(3-acetylphenyl)cyclohexyl
2415	CH	CH	N	CH	CH	4-(3-cyanophenyl)cyclohexyl
2416	CH	CH	N	CH	CH	4-(2-difluoromethoxyphenyl)cyclohexyl
2417	CH	CH	N	CH	CH	4-(3-difluoromethoxyphenyl)cyclohexyl
2418	CH	CH	N	CH	CH	4-(4-difluoromethoxyphenyl)cyclohexyl
2419	CH	CH	N	CH	CH	4-(2-pyridyl)cyclohexyl
2420	CH	CH	N	CH	CH	4-(3-pyridyl)cyclohexyl
2421	CH	CH	N	CH	CH	4-(4-pyridyl)cyclohexyl
2422	CH	CH	N	CH	CH	4-(4-fluoro-3-pyridyl)cyclohexyl
2423	CH	CH	N	CH	CH	4-(3-quinolyl)cyclohexyl
2424	CH	CH	N	CH	CH	4-(3-fluorophenyl)-4-hydroxycyclohexyl
2425	CH	CH	N	CH	CH	3-phenylcyclohexyl

(continued from Table 3)

2426	CH	CH	N	CH	CH	3-phenylcyclopentyl
2427	CH	CH	N	CH	CH	6-phenyl-3-tetrhydropyranyl
2428	CH	CH	N	CH	CH	6-(3-fluorophenyl)-3-tetrhydro-pyranyl
2429	CH	CH	N	CH	CH	2-phenylcyclopropyl
2430	CH	CH	N	CH	CH	2-(2-pyridyl)cyclopropyl
2431	CH	CH	N	CH	CH	2-(3-pyridyl)cyclopropyl
2432	CH	CH	N	CH	CH	2-(4-pyridyl)cyclopropyl
2433	CH	CH	N	CH	CH	2-(3-fluorophenyl)cyclopropyl
2434	CH	CH	N	CH	CH	2-indanyl
2435	CH	CH	N	CH	CH	2-tetrahydronaphthyl
2436	CH	CH	N	CH	CH	6-methoxy-2-tetrahydronaphthyl
2437	CH	CH	N	CH	CH	benzyl
2438	CH	CH	N	CH	CH	phenethyl
2439	CH	CH	N	CH	CH	3-phenylpropyl
2440	CH	CH	N	CH	CH	4-phenylbutyl
2441	CH	CH	N	CH	CH	2-methoxyphenethyl
2442	CH	CH	N	CH	CH	3-methoxyphenethyl
2443	CH	CH	N	CH	CH	4-methoxyphenethyl
2444	CH	CH	N	CH	CH	4-fluorophenethyl
2445	CH	CH	N	CH	CH	4-bromophenethyl
2446	CH	CH	N	CH	CH	4-chlorophenethyl
2447	CH	CH	N	CH	CH	3-trifluoromethylphenethyl
2448	CH	CH	N	CH	CH	3,4-dimethoxyphenethyl
2449	CH	CH	N	CH	CH	3-propoxyphenethyl
2450	CH	CH	N	CH	CH	3,5-difluorophenethyl
2451	CH	CH	N	CH	CH	4-dimethylaminophenethyl
2452	CH	CH	N	CH	CH	3-difluoromethoxyphenethyl
2453	CH	CH	N	CH	CH	2-methylphenethyl
2454	CH	CH	N	CH	CH	4-acetylphenethyl
2455	CH	CH	N	CH	CH	4-dimethylamino-2-methoxyphenethyl
2456	CH	CH	N	CH	CH	cyclohexylethyl
2457	CH	CH	N	CH	CH	2-(2-pyridyl)ethyl
2458	CH	CH	N	CH	CH	2-(3-pyridyl)ethyl
2459	CH	CH	N	CH	CH	2-(4-pyridyl)ethyl
2460	CH	CH	N	CH	CH	2-(2-quinolyl)ethyl
2461	CH	CH	N	CH	CH	2-(3-quinolyl)ethyl
2462	CH	CH	N	CH	CH	2-(4-quinolyl)ethyl
2463	CH	CH	N	CH	CH	2-(6-quinolyl)ethyl

(continued from Table 3)

2464	CH	CH	N	CH	CH	2-(2-indolyl)ethyl
2465	CH	CH	N	CH	CH	2-(3-indolyl)ethyl
2466	CH	CH	N	CH	CH	2-(7-aza-3-indolyl)ethyl
2467	CH	CH	N	CH	CH	2-(benzimidazolyl)ethyl
2468	CH	CH	N	CH	CH	2-(benzoxazolyl)ethyl
2469	CH	CH	N	CH	CH	2-(benzothiazolyl)ethyl
2470	CH	CH	N	CH	CH	2-(1-naphthyl)ethyl
2471	CH	CH	N	CH	CH	2-(2-naphthyl)ethyl
2472	CH	CH	N	CH	CH	1-(hydroxymethyl)-2-phenylethyl
2473	CH	CH	N	CH	CH	1-(methoxycarbonyl)-2-phenylethyl
2474	CH	CH	N	CH	CH	1-(ethoxycarbonyl)-2-phenylethyl
2475	CH	CH	N	CH	CH	1-carboxy-2-phenylethyl
2476	CH	CH	N	CH	CH	1-(benzyloxycarbonyl)-2-phenylethyl
2477	CH	CH	N	CH	CH	1-(phenoxymethyl)-2-phenylethyl
2478	CH	CH	N	CH	CH	1-(benzyloxymethyl)-2-phenylethyl
2479	CH	CH	N	CH	CH	1-(benzylcarbamoyl)-2-phenylethyl
2480	CH	CH	N	CH	CH	1-(N-methylbenzylcarbamoyl)-2-phenylethyl
2481	CH	CH	N	CH	CH	1-(phenylcarbamoyl)-2-phenylethyl
2482	CH	CH	N	CH	CH	1-(N-methylphenylcarbamoyl)-2-phenylethyl
2483	CH	CH	N	CH	CH	1-(N-benzylaminomethyl)-2-phenylethyl
2484	CH	CH	N	CH	CH	1-(N-benzyl-N-methylaminomethyl)-2-phenylethyl
2485	CH	CH	N	CH	CH	1-(anilinomethyl)-2-phenylethyl
2486	CH	CH	N	CH	CH	1-(N-methylanilinomethyl)-2-phenylethyl
2487	CH	CH	N	CH	CH	1-(N-methylaminomethyl)-2-phenylethyl
2488	CH	CH	N	CH	CH	1-(N-ethylaminomethyl)-2-phenylethyl
2489	CH	CH	N	CH	CH	1-(N-isobutylaminomethyl)-2-phenylethyl
2490	CH	CH	N	CH	CH	1-(N-cyclopropylmethylaminomethyl)-2-phenylethyl
2491	CH	CH	N	CH	CH	1-(aminomethyl)-2-phenylethyl
2492	CH	CH	N	CH	CH	1-benzyl-2-(2-pyridylmethylamino)ethyl
2493	CH	CH	N	CH	CH	1-benzyl-2-(3-pyridylmethylamino)ethyl

(continued from Table 3)

2494	CH	CH	N	CH	CH	1-benzyl-2-(4-pyridylmethyl-amino)ethyl
2495	CH	CH	N	CH	CH	2-phenyl-1-(2-pyridylmethyl-carbamoyl)ethyl
2496	CH	CH	N	CH	CH	2-phenyl-1-(3-pyridylmethyl-carbamoyl)ethyl
2497	CH	CH	N	CH	CH	2-phenyl-1-(4-pyridylmethyl-carbamoyl)ethyl
2498	CH	CH	N	CH	CH	2-hydroxy-2-phenylethyl
2499	CH	CH	N	CH	CH	benzoylmethyl
2500	CH	CH	N	CH	CH	1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl
2501	CH	CH	N	CH	CH	1-(benzyloxycarbonyl)-2-cyclo-hexylethyl
2502	CH	CH	N	CH	CH	1-(phenoxymethyl)-2-(3-indolyl)ethyl
2503	CH	CH	N	CH	CH	2-(2-methoxyphenoxy)ethyl
2504	CH	CH	N	CH	CH	1-(benzylcarbamoyl)-2-cyclohexyl-ethyl
2505	CH	CH	N	CH	CH	1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl
2506	CH	CH	N	CH	CH	1-(phenylcarbamoyl)-2-cyclohexyl-ethyl
2507	CH	CH	N	CH	CH	1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
2508	CH	CH	N	CH	CH	1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl
2509	CH	CH	N	CH	CH	1-(benzylaminomethyl)-2-(3-pyridyl)ethyl
2510	CH	CH	N	CH	CH	1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl
2511	CH	CH	N	CH	CH	1-(4-pyridylmethylcarbamoyl)-2-(4-fluorophenyl)ethyl
2512	CH	CH	N	CH	CH	1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
2513	CH	CH	N	CH	CH	1-(benzyloxymethyl)-2-(2-indolyl)ethyl
2514	CH	CH	N	CH	CH	1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl
2515	CH	CH	N	CH	CH	1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
2516	CH	CH	N	CH	CH	2-hydroxy-2-(4-dimethylamino-phenyl)ethyl
2517	CH	CH	N	CH	CH	2-hydroxy-2-(2-quinolyl)ethyl

(continued from Table 3)

2518	CH	CH	N	CH	CH	2-hydroxy-2-(3-quinolyl)ethyl
2519	CH	CH	N	CH	CH	2-hydroxy-2-(4-quinolyl)ethyl
2520	CH	CH	N	CH	CH	2-hydroxy-2-(3,5-difluoro-phenyl)ethyl
2521	CH	CH	N	CH	CH	1-carboxy-2-cyclohexylethyl
2522	CH	CH	N	CH	CH	2-hydroxy-2-(6-quinolyl)ethyl
2523	CH	CH	N	CH	CH	2-(benzylamino)-2-phenylethyl
2524	CH	CH	N	CH	CH	2-amino-2-(2-naphthyl)propyl
2525	CH	CH	N	CH	CH	2-(phenylamino)ethyl
2526	CH	CH	N	CH	CH	diphenylmethyl
2527	CH	CH	N	CH	CH	2,2-diphenylethyl
2528	CH	CH	N	CH	CH	2-phenyl-2-(2-pyridyl)ethyl
2529	CH	CH	N	CH	CH	2-phenyl-2-(3-pyridyl)ethyl
2530	CH	CH	N	CH	CH	2-phenyl-2-(4-pyridyl)ethyl
2531	CH	CH	N	CH	CH	2-phenoxy-2-phenylethyl
2532	CH	CH	N	CH	CH	2-(benzyloxy)-2-phenylethyl
2533	CH	CH	N	CH	N	1-phenyl-3-pyrrolidinyl
2534	CH	CH	N	CH	N	1-(2-fluorophenyl)-3-pyrrolidinyl
2535	CH	CH	N	CH	N	1-(3-fluorophenyl)-3-pyrrolidinyl
2536	CH	CH	N	CH	N	1-(4-fluorophenyl)-3-pyrrolidinyl
2537	CH	CH	N	CH	N	1-(2-chlorophenyl)-3-pyrrolidinyl
2538	CH	CH	N	CH	N	1-(3-chlorophenyl)-3-pyrrolidinyl
2539	CH	CH	N	CH	N	1-(4-chlorophenyl)-3-pyrrolidinyl
2540	CH	CH	N	CH	N	1-(2-methylphenyl)-3-pyrrolidinyl
2541	CH	CH	N	CH	N	1-(3-methylphenyl)-3-pyrrolidinyl
2542	CH	CH	N	CH	N	1-(4-methylphenyl)-3-pyrrolidinyl
2543	CH	CH	N	CH	N	1-(2-methoxyphenyl)-3-pyrrolidinyl
2544	CH	CH	N	CH	N	1-(3-methoxyphenyl)-3-pyrrolidinyl
2545	CH	CH	N	CH	N	1-(4-methoxyphenyl)-3-pyrrolidinyl
2546	CH	CH	N	CH	N	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
2547	CH	CH	N	CH	N	1-(3-trifluoromethylphenyl)-3-pyrrolidinyl
2548	CH	CH	N	CH	N	1-(4-trifluoromethylphenyl)-3-pyrrolidinyl
2549	CH	CH	N	CH	N	1-(3,5-difluorophenyl)-3-pyrrolidinyl
2550	CH	CH	N	CH	N	1-(2-difluromethoxyphenyl)-3-pyrrolidinyl
2551	CH	CH	N	CH	N	1-(3-difluromethoxyphenyl)-3-pyrrolidinyl

(continued from Table 3)

2552	CH	CH	N	CH	N	1-(4-difluromethoxyphenyl)-3-pyrrolidinyl
2553	CH	CH	N	CH	N	1-(2-pyridyl)-3-pyrrolidinyl
2554	CH	CH	N	CH	N	1-(3-pyridyl)-3-pyrrolidinyl
2555	CH	CH	N	CH	N	1-(4-pyridyl)-3-pyrrolidinyl
2556	CH	CH	N	CH	N	1-(2-pyrimidinyl)-3-pyrrolidinyl
2557	CH	CH	N	CH	N	5-oxo-1-phenyl-3-pyrrolidinyl
2558	CH	CH	N	CH	N	1-phenyl-3-piperidyl
2559	CH	CH	N	CH	N	1-(2-fluorophenyl)-3-piperidyl
2560	CH	CH	N	CH	N	1-(3-fluorophenyl)-3-piperidyl
2561	CH	CH	N	CH	N	1-(4-fluorophenyl)-3-piperidyl
2562	CH	CH	N	CH	N	1-(2-chlorophenyl)-3-piperidyl
2563	CH	CH	N	CH	N	1-(3-chlorophenyl)-3-piperidyl
2564	CH	CH	N	CH	N	1-(4-chlorophenyl)-3-piperidyl
2565	CH	CH	N	CH	N	1-(2-methylphenyl)-3-piperidyl
2566	CH	CH	N	CH	N	1-(3-methylphenyl)-3-piperidyl
2567	CH	CH	N	CH	N	1-(4-methylphenyl)-3-piperidyl
2568	CH	CH	N	CH	N	1-(2-methoxyphenyl)-3-piperidyl
2569	CH	CH	N	CH	N	1-(3-methoxyphenyl)-3-piperidyl
2570	CH	CH	N	CH	N	1-(4-methoxyphenyl)-3-piperidyl
2571	CH	CH	N	CH	N	1-(2-trifluoromethylphenyl)-3-piperidyl
2572	CH	CH	N	CH	N	1-(3-trifluoromethylphenyl)-3-piperidyl
2573	CH	CH	N	CH	N	1-(4-trifluoromethylphenyl)-3-piperidyl
2574	CH	CH	N	CH	N	1-(3,5-difluorophenyl)-3-piperidyl
2575	CH	CH	N	CH	N	1-(2-difluoromethoxyphenyl)-3-piperidyl
2576	CH	CH	N	CH	N	1-(3-difluoromethoxyphenyl)-3-piperidyl
2577	CH	CH	N	CH	N	1-(4-difluoromethoxyphenyl)-3-piperidyl
2578	CH	CH	N	CH	N	1-(2-pyridyl)-3-piperidyl
2579	CH	CH	N	CH	N	1-(3-pyridyl)-3-piperidyl
2580	CH	CH	N	CH	N	1-(4-pyridyl)-3-piperidyl
2581	CH	CH	N	CH	N	1-phenyl-4-piperidyl
2582	CH	CH	N	CH	N	1-(2-fluorophenyl)-4-piperidyl
2583	CH	CH	N	CH	N	1-(3-fluorophenyl)-4-piperidyl
2584	CH	CH	N	CH	N	1-(4-fluorophenyl)-4-piperidyl
2585	CH	CH	N	CH	N	1-(2-chlorophenyl)-4-piperidyl

(continued from Table 3)

2586	CH	CH	N	CH	N	1-(3-chlorophenyl)-4-piperidyl
2587	CH	CH	N	CH	N	1-(4-chlorophenyl)-4-piperidyl
2588	CH	CH	N	CH	N	1-(2-methylphenyl)-4-piperidyl
2589	CH	CH	N	CH	N	1-(3-methylphenyl)-4-piperidyl
2590	CH	CH	N	CH	N	1-(4-methylphenyl)-4-piperidyl
2591	CH	CH	N	CH	N	1-(2-methoxyphenyl)-4-piperidyl
2592	CH	CH	N	CH	N	1-(3-methoxyphenyl)-4-piperidyl
2593	CH	CH	N	CH	N	1-(4-methoxyphenyl)-4-piperidyl
2594	CH	CH	N	CH	N	1-(2-trifluoromethylphenyl)-4-piperidyl
2595	CH	CH	N	CH	N	1-(3-trifluoromethylphenyl)-4-piperidyl
2596	CH	CH	N	CH	N	1-(4-trifluoromethylphenyl)-4-piperidyl
2597	CH	CH	N	CH	N	1-(3,5-difluorophenyl)-4-piperidyl
2598	CH	CH	N	CH	N	1-(2-difluoromethoxyphenyl)-4-piperidyl
2599	CH	CH	N	CH	N	1-(3-difluoromethoxyphenyl)-4-piperidyl
2600	CH	CH	N	CH	N	1-(4-difluoromethoxyphenyl)-4-piperidyl
2601	CH	CH	N	CH	N	1-(2-pyridyl)-4-piperidyl
2602	CH	CH	N	CH	N	1-(3-pyridyl)-4-piperidyl
2603	CH	CH	N	CH	N	1-(4-pyridyl)-4-piperidyl
2604	CH	CH	N	CH	N	3-hydroxymethyl-1-phenyl-4-piperidyl
2605	CH	CH	N	CH	N	3-methoxycarbonyl-1-phenyl-4-piperidyl
2606	CH	CH	N	CH	N	3-ethoxycarbonyl-1-phenyl-4-piperidyl
2607	CH	CH	N	CH	N	3-isopropoxycarbonyl-1-phenyl-4-piperidyl
2608	CH	CH	N	CH	N	4-phenylcyclohexyl
2609	CH	CH	N	CH	N	4-(2-fluorophenyl)cyclohexyl
2610	CH	CH	N	CH	N	4-(3-fluorophenyl)cyclohexyl
2611	CH	CH	N	CH	N	4-(4-fluorophenyl)cyclohexyl
2612	CH	CH	N	CH	N	4-(2-chlorophenyl)cyclohexyl
2613	CH	CH	N	CH	N	4-(3-chlorophenyl)cyclohexyl
2614	CH	CH	N	CH	N	4-(4-chlorophenyl)cyclohexyl
2615	CH	CH	N	CH	N	4-(2-methylphenyl)cyclohexyl
2616	CH	CH	N	CH	N	4-(3-methylphenyl)cyclohexyl

(continued from Table 3)

2617	CH	CH	N	CH	N	4-(4-methylphenyl)cyclohexyl
2618	CH	CH	N	CH	N	4-(2-methoxyphenyl)cyclohexyl
2619	CH	CH	N	CH	N	4-(3-methoxyphenyl)cyclohexyl
2620	CH	CH	N	CH	N	4-(4-methoxyphenyl)cyclohexyl
2621	CH	CH	N	CH	N	4-(2-trifluoromethylphenyl)cyclohexyl
2622	CH	CH	N	CH	N	4-(3-trifluoromethylphenyl)cyclohexyl
2623	CH	CH	N	CH	N	4-(4-trifluoromethylphenyl)cyclohexyl
2624	CH	CH	N	CH	N	4-(3,5-difluorophenyl)cyclohexyl
2625	CH	CH	N	CH	N	4-(3-acetylphenyl)cyclohexyl
2626	CH	CH	N	CH	N	4-(3-cyanophenyl)cyclohexyl
2627	CH	CH	N	CH	N	4-(2-difluoromethoxyphenyl)cyclohexyl
2628	CH	CH	N	CH	N	4-(3-difluoromethoxyphenyl)cyclohexyl
2629	CH	CH	N	CH	N	4-(4-difluoromethoxyphenyl)cyclohexyl
2630	CH	CH	N	CH	N	4-(2-pyridyl)cyclohexyl
2631	CH	CH	N	CH	N	4-(3-pyridyl)cyclohexyl
2632	CH	CH	N	CH	N	4-(4-pyridyl)cyclohexyl
2633	CH	CH	N	CH	N	4-(4-fluoro-3-pyridyl)cyclohexyl
2634	CH	CH	N	CH	N	4-(3-quinolyl)cyclohexyl
2635	CH	CH	N	CH	N	4-(3-fluorophenyl)-4-hydroxycyclohexyl
2636	CH	CH	N	CH	N	3-phenylcyclohexyl
2637	CH	CH	N	CH	N	3-phenylcyclopentyl
2638	CH	CH	N	CH	N	6-phenyl-3-tetrahydropyranyl
2639	CH	CH	N	CH	N	6-(3-fluorophenyl)-3-tetrahydropyranyl
2640	CH	CH	N	CH	N	2-phenylcyclopropyl
2641	CH	CH	N	CH	N	2-(2-pyridyl)cyclopropyl
2642	CH	CH	N	CH	N	2-(3-pyridyl)cyclopropyl
2643	CH	CH	N	CH	N	2-(4-pyridyl)cyclopropyl
2644	CH	CH	N	CH	N	2-(3-fluorophenyl)cyclopropyl
2645	CH	CH	N	CH	N	2-indanyl
2646	CH	CH	N	CH	N	2-tetrahydronaphthyl
2647	CH	CH	N	CH	N	6-methoxy-2-tetrahydronaphthyl
2648	CH	CH	N	CH	N	benzyl
2649	CH	CH	N	CH	N	phenethyl

(continued from Table 3)

2650	CH	CH	N	CH	N	3-phenylpropyl
2651	CH	CH	N	CH	N	4-phenylbutyl
2652	CH	CH	N	CH	N	2-methoxyphenethyl
2653	CH	CH	N	CH	N	3-methoxyphenethyl
2654	CH	CH	N	CH	N	4-methoxyphenethyl
2655	CH	CH	N	CH	N	4-fluorophenethyl
2656	CH	CH	N	CH	N	4-bromophenethyl
2657	CH	CH	N	CH	N	4-chlorophenethyl
2658	CH	CH	N	CH	N	3-trifluoromethylphenethyl
2659	CH	CH	N	CH	N	3,4-dimethoxyphenethyl
2660	CH	CH	N	CH	N	3-propoxyphenethyl
2661	CH	CH	N	CH	N	3,5-difluorophenethyl
2662	CH	CH	N	CH	N	4-dimethylaminophenethyl
2663	CH	CH	N	CH	N	3-difluoromethoxyphenethyl
2664	CH	CH	N	CH	N	2-methylphenethyl
2665	CH	CH	N	CH	N	4-acetylphenethyl
2666	CH	CH	N	CH	N	4-dimethylamino-2-methoxyphenethyl
2667	CH	CH	N	CH	N	cyclohexylethyl
2668	CH	CH	N	CH	N	2-(2-pyridyl)ethyl
2669	CH	CH	N	CH	N	2-(3-pyridyl)ethyl
2670	CH	CH	N	CH	N	2-(4-pyridyl)ethyl
2671	CH	CH	N	CH	N	2-(2-quinolyl)ethyl
2672	CH	CH	N	CH	N	2-(3-quinolyl)ethyl
2673	CH	CH	N	CH	N	2-(4-quinolyl)ethyl
2674	CH	CH	N	CH	N	2-(6-quinolyl)ethyl
2675	CH	CH	N	CH	N	2-(2-indolyl)ethyl
2676	CH	CH	N	CH	N	2-(3-indolyl)ethyl
2677	CH	CH	N	CH	N	2-(7-aza-3-indolyl)ethyl
2678	CH	CH	N	CH	N	2-(benzimidazolyl)ethyl
2679	CH	CH	N	CH	N	2-(benzoxazolyl)ethyl
2680	CH	CH	N	CH	N	2-(benzothiazolyl)ethyl
2681	CH	CH	N	CH	N	2-(1-naphthyl)ethyl
2682	CH	CH	N	CH	N	2-(2-naphthyl)ethyl
2683	CH	CH	N	CH	N	1-(hydroxymethyl)-2-phenylethyl
2684	CH	CH	N	CH	N	1-(methoxycarbonyl)-2-phenylethyl
2685	CH	CH	N	CH	N	1-(ethoxycarbonyl)-2-phenylethyl
2686	CH	CH	N	CH	N	1-carboxy-2-phenylethyl
2687	CH	CH	N	CH	N	1-(benzyloxycarbonyl)-2-phenyl-ethyl

(continued from Table 3)

2688	CH	CH	N	CH	N	1-(phenoxymethyl)-2-phenylethyl
2689	CH	CH	N	CH	N	1-(benzyloxymethyl)-2-phenylethyl
2690	CH	CH	N	CH	N	1-(benzylcarbamoyl)-2-phenylethyl
2691	CH	CH	N	CH	N	1-(N-methylbenzylcarbamoyl)-2-phenylethyl
2692	CH	CH	N	CH	N	1-(phenylcarbamoyl)-2-phenylethyl
2693	CH	CH	N	CH	N	1-(N-methylphenylcarbamoyl)-2-phenylethyl
2694	CH	CH	N	CH	N	1-(N-benzylaminomethyl)-2-phenylethyl
2695	CH	CH	N	CH	N	1-(N-benzyl-N-methylaminomethyl)-2-phenylethyl
2696	CH	CH	N	CH	N	1-(anilinomethyl)-2-phenylethyl
2697	CH	CH	N	CH	N	1-(N-methylanilinomethyl)-2-phenylethyl
2698	CH	CH	N	CH	N	1-(N-methylaminomethyl)-2-phenylethyl
2699	CH	CH	N	CH	N	1-(N-ethylaminomethyl)-2-phenylethyl
2700	CH	CH	N	CH	N	1-(N-isobutylaminomethyl)-2-phenylethyl
2701	CH	CH	N	CH	N	1-(N-cyclopropylmethylaminomethyl)-2-phenylethyl
2702	CH	CH	N	CH	N	1-(aminomethyl)-2-phenylethyl
2703	CH	CH	N	CH	N	1-benzyl-2-(2-pyridylmethylamino)ethyl
2704	CH	CH	N	CH	N	1-benzyl-2-(3-pyridylmethylamino)ethyl
2705	CH	CH	N	CH	N	1-benzyl-2-(4-pyridylmethylamino)ethyl
2706	CH	CH	N	CH	N	2-phenyl-1-(2-pyridylmethylcarbamoyl)ethyl
2707	CH	CH	N	CH	N	2-phenyl-1-(3-pyridylmethylcarbamoyl)ethyl
2708	CH	CH	N	CH	N	2-phenyl-1-(4-pyridylmethylcarbamoyl)ethyl
2709	CH	CH	N	CH	N	2-hydroxy-2-phenylethyl
2710	CH	CH	N	CH	N	benzoylmethyl
2711	CH	CH	N	CH	N	1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl
2712	CH	CH	N	CH	N	1-(benzyloxycarbonyl)-2-cyclohexylethyl
2713	CH	CH	N	CH	N	1-(phenoxymethyl)-2-(3-indolyl)ethyl

(continued from Table 3)

2714	CH	CH	N	CH	N	2-(2-methoxyphenoxy)ethyl
2715	CH	CH	N	CH	N	1-(benzylcarbamoyl)-2-cyclohexylethyl
2716	CH	CH	N	CH	N	1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl
2717	CH	CH	N	CH	N	1-(phenylcarbamoyl)-2-cyclohexylethyl
2718	CH	CH	N	CH	N	1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
2719	CH	CH	N	CH	N	1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl
2720	CH	CH	N	CH	N	1-(benzylaminomethyl)-2-(3-pyridyl)ethyl
2721	CH	CH	N	CH	N	1-(benzylcarbamoyl)-2-4-pyridyl)ethyl
2722	CH	CH	N	CH	N	1-(4-pyridylmethylcarbamoyl)-2-(4-fluorophenyl)ethyl
2723	CH	CH	N	CH	N	1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
2724	CH	CH	N	CH	N	1-(benzyloxymethyl)-2-(2-indolyl)ethyl
2725	CH	CH	N	CH	N	1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl
2726	CH	CH	N	CH	N	1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
2727	CH	CH	N	CH	N	2-hydroxy-2-(4-dimethylamino-phenyl)ethyl
2728	CH	CH	N	CH	N	2-hydroxy-2-(2-quinolyl)ethyl
2729	CH	CH	N	CH	N	2-hydroxy-2-(3-quinolyl)ethyl
2730	CH	CH	N	CH	N	2-hydroxy-2-(4-quinolyl)ethyl
2731	CH	CH	N	CH	N	2- hydroxy-2-(3,5-difluorophenyl) ethyl
2732	CH	CH	N	CH	N	1-carboxy-2-cyclohexylethyl
2733	CH	CH	N	CH	N	2-hydroxy-2-(6-quinolyl)ethyl
2734	CH	CH	N	CH	N	2-(benzylamino)-2-phenylethyl
2735	CH	CH	N	CH	N	2-amino-2-(2-naphthyl)propyl
2736	CH	CH	N	CH	N	2-(phenylamino)ethyl
2737	CH	CH	N	CH	N	diphenylmethyl
2738	CH	CH	N	CH	N	2,2-diphenylethyl
2739	CH	CH	N	CH	N	2-phenyl-2-(2-pyridyl)ethyl
2740	CH	CH	N	CH	N	2-phenyl-2-(3-pyridyl)ethyl
2741	CH	CH	N	CH	N	2-phenyl-2-(4-pyridyl)ethyl
2742	CH	CH	N	CH	N	2-phenoxy-2-phenylethyl

(continued from Table 3)

2743	CH	CH	N	CH	N	2-(benzyloxy)-2-phenylethyl
2744	CH	CH	CH	N	CH	1-phenyl-3-pyrrolidinyl
2745	CH	CH	CH	N	CH	1-(2-fluorophenyl)-3-pyrrolidinyl
2746	CH	CH	CH	N	CH	1-(3-fluorophenyl)-3-pyrrolidinyl
2747	CH	CH	CH	N	CH	1-(4-fluorophenyl)-3-pyrrolidinyl
2748	CH	CH	CH	N	CH	1-(2-chlorophenyl)-3-pyrrolidinyl
2749	CH	CH	CH	N	CH	1-(3-chlorophenyl)-3-pyrrolidinyl
2750	CH	CH	CH	N	CH	1-(4-chlorophenyl)-3-pyrrolidinyl
2751	CH	CH	CH	N	CH	1-(2-methylphenyl)-3-pyrrolidinyl
2752	CH	CH	CH	N	CH	1-(3-methylphenyl)-3-pyrrolidinyl
2753	CH	CH	CH	N	CH	1-(4-methylphenyl)-3-pyrrolidinyl
2754	CH	CH	CH	N	CH	1-(2-methoxyphenyl)-3-pyrrolidinyl
2755	CH	CH	CH	N	CH	1-(3-methoxyphenyl)-3-pyrrolidinyl
2756	CH	CH	CH	N	CH	1-(4-methoxyphenyl)-3-pyrrolidinyl
2757	CH	CH	CH	N	CH	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
2758	CH	CH	CH	N	CH	1-(3-trifluoromethylphenyl)-3-pyrrolidinyl
2759	CH	CH	CH	N	CH	1-(4-trifluoromethylphenyl)-3-pyrrolidinyl
2760	CH	CH	CH	N	CH	1-(3,5-difluorophenyl)-3-pyrrolidinyl
2761	CH	CH	CH	N	CH	1-(2-difluoromethoxyphenyl)-3-pyrrolidinyl
2762	CH	CH	CH	N	CH	1-(3-difluoromethoxyphenyl)-3-pyrrolidinyl
2763	CH	CH	CH	N	CH	1-(4-difluoromethoxyphenyl)-3-pyrrolidinyl
2764	CH	CH	CH	N	CH	1-(2-pyridyl)-3-pyrrolidinyl
2765	CH	CH	CH	N	CH	1-(3-pyridyl)-3-pyrrolidinyl
2766	CH	CH	CH	N	CH	1-(4-pyridyl)-3-pyrrolidinyl
2767	CH	CH	CH	N	CH	1-(2-pyrimidinyl)-3-pyrrolidinyl
2768	CH	CH	CH	N	CH	5-oxo-1-phenyl-3-pyrrolidinyl
2769	CH	CH	CH	N	CH	1-phenyl-3-piperidyl
2770	CH	CH	CH	N	CH	1-(2-fluorophenyl)-3-piperidyl
2771	CH	CH	CH	N	CH	1-(3-fluorophenyl)-3-piperidyl
2772	CH	CH	CH	N	CH	1-(4-fluorophenyl)-3-piperidyl
2773	CH	CH	CH	N	CH	1-(2-chlorophenyl)-3-piperidyl
2774	CH	CH	CH	N	CH	1-(3-chlorophenyl)-3-piperidyl

(continued from Table 3)

2775	CH	CH	CH	N	CH	1-(4-chlorophenyl)-3-piperidyl
2776	CH	CH	CH	N	CH	1-(2-methylphenyl)-3-piperidyl
2777	CH	CH	CH	N	CH	1-(3-methylphenyl)-3-piperidyl
2778	CH	CH	CH	N	CH	1-(4-methylphenyl)-3-piperidyl
2779	CH	CH	CH	N	CH	1-(2-methoxyphenyl)-3-piperidyl
2780	CH	CH	CH	N	CH	1-(3-methoxyphenyl)-3-piperidyl
2781	CH	CH	CH	N	CH	1-(4-methoxyphenyl)-3-piperidyl
2782	CH	CH	CH	N	CH	1-(2-trifluoromethylphenyl)-3-piperidyl
2783	CH	CH	CH	N	CH	1-(3-trifluoromethylphenyl)-3-piperidyl
2784	CH	CH	CH	N	CH	1-(4-trifluoromethylphenyl)-3-piperidyl
2785	CH	CH	CH	N	CH	1-(3,5-difluorophenyl)-3-piperidyl
2786	CH	CH	CH	N	CH	1-(2-difluoromethoxyphenyl)-3-piperidyl
2787	CH	CH	CH	N	CH	1-(3-difluoromethoxyphenyl)-3-piperidyl
2788	CH	CH	CH	N	CH	1-(4-difluoromethoxyphenyl)-3-piperidyl
2789	CH	CH	CH	N	CH	1-(2-pyridyl)-3-piperidyl
2790	CH	CH	CH	N	CH	1-(3-pyridyl)-3-piperidyl
2791	CH	CH	CH	N	CH	1-(4-pyridyl)-3-piperidyl
2792	CH	CH	CH	N	CH	1-phenyl-4-piperidyl
2793	CH	CH	CH	N	CH	1-(2-fluorophenyl)-4-piperidyl
2794	CH	CH	CH	N	CH	1-(3-fluorophenyl)-4-piperidyl
2795	CH	CH	CH	N	CH	1-(4-fluorophenyl)-4-piperidyl
2796	CH	CH	CH	N	CH	1-(2-chlorophenyl)-4-piperidyl
2797	CH	CH	CH	N	CH	1-(3-chlorophenyl)-4-piperidyl
2798	CH	CH	CH	N	CH	1-(4-chlorophenyl)-4-piperidyl
2799	CH	CH	CH	N	CH	1-(2-methylphenyl)-4-piperidyl
2800	CH	CH	CH	N	CH	1-(3-methylphenyl)-4-piperidyl
2801	CH	CH	CH	N	CH	1-(4-methylphenyl)-4-piperidyl
2802	CH	CH	CH	N	CH	1-(2-methoxyphenyl)-4-piperidyl
2803	CH	CH	CH	N	CH	1-(3-methoxyphenyl)-4-piperidyl
2804	CH	CH	CH	N	CH	1-(4-methoxyphenyl)-4-piperidyl
2805	CH	CH	CH	N	CH	1-(2-trifluoromethylphenyl)-4-piperidyl
2806	CH	CH	CH	N	CH	1-(3-trifluoromethylphenyl)-4-piperidyl

(continued from Table 3)

2807	CH	CH	CH	N	CH	1-(4-trifluoromethylphenyl)-4-piperidyl
2808	CH	CH	CH	N	CH	1-(3,5-difluorophenyl)-4-piperidyl
2809	CH	CH	CH	N	CH	1-(2-difluoromethoxyphenyl)-4-piperidyl
2810	CH	CH	CH	N	CH	1-(3-difluoromethoxyphenyl)-4-piperidyl
2811	CH	CH	CH	N	CH	1-(4-difluoromethoxyphenyl)-4-piperidyl
2812	CH	CH	CH	N	CH	1-(2-pyridyl)-4-piperidyl
2813	CH	CH	CH	N	CH	1-(3-pyridyl)-4-piperidyl
2814	CH	CH	CH	N	CH	1-(4-pyridyl)-4-piperidyl
2815	CH	CH	CH	N	CH	3-hydroxymethyl-1-phenyl-4-piperidyl
2816	CH	CH	CH	N	CH	3-methoxycarbonyl-1-phenyl-4-piperidyl
2817	CH	CH	CH	N	CH	3-ethoxycarbonyl-1-phenyl-4-piperidyl
2818	CH	CH	CH	N	CH	3-isopropoxycarbonyl-1-phenyl-4-piperidyl
2819	CH	CH	CH	N	CH	4-phenylcyclohexyl
2820	CH	CH	CH	N	CH	4-(2-fluorophenyl)cyclohexyl
2821	CH	CH	CH	N	CH	4-(3-fluorophenyl)cyclohexyl
2822	CH	CH	CH	N	CH	4-(4-fluorophenyl)cyclohexyl
2823	CH	CH	CH	N	CH	4-(2-chlorophenyl)cyclohexyl
2824	CH	CH	CH	N	CH	4-(3-chlorophenyl)cyclohexyl
2825	CH	CH	CH	N	CH	4-(4-chlorophenyl)cyclohexyl
2826	CH	CH	CH	N	CH	4-(2-methylphenyl)cyclohexyl
2827	CH	CH	CH	N	CH	4-(3-methylphenyl)cyclohexyl
2828	CH	CH	CH	N	CH	4-(4-methylphenyl)cyclohexyl
2829	CH	CH	CH	N	CH	4-(2-methoxyphenyl)cyclohexyl
2830	CH	CH	CH	N	CH	4-(3-methoxyphenyl)cyclohexyl
2831	CH	CH	CH	N	CH	4-(4-methoxyphenyl)cyclohexyl
2832	CH	CH	CH	N	CH	4-(2-trifluoromethylphenyl)cyclohexyl
2833	CH	CH	CH	N	CH	4-(3-trifluoromethylphenyl)cyclohexyl
2834	CH	CH	CH	N	CH	4-(4-trifluoromethylphenyl)cyclohexyl
2835	CH	CH	CH	N	CH	4-(3,5-difluorophenyl)cyclohexyl
2836	CH	CH	CH	N	CH	4-(3-acetylphenyl)cyclohexyl

(continued from Table 3)

2837	CH	CH	CH	N	CH	4-(3-cyanophenyl)cyclohexyl
2838	CH	CH	CH	N	CH	4-(2-difluoromethoxyphenyl)cyclohexyl
2839	CH	CH	CH	N	CH	4-(3-difluoromethoxyphenyl)cyclohexyl
2840	CH	CH	CH	N	CH	4-(4-difluoromethoxyphenyl)cyclohexyl
2841	CH	CH	CH	N	CH	4-(2-pyridyl)cyclohexyl
2842	CH	CH	CH	N	CH	4-(3-pyridyl)cyclohexyl
2843	CH	CH	CH	N	CH	4-(4-pyridyl)cyclohexyl
2844	CH	CH	CH	N	CH	4-(4-fluoro-3-pyridyl)cyclohexyl
2845	CH	CH	CH	N	CH	4-(3-quinolyl)cyclohexyl
2846	CH	CH	CH	N	CH	4-(3-fluorophenyl)-4-hydroxycyclohexyl
2847	CH	CH	CH	N	CH	3-phenylcyclohexyl
2848	CH	CH	CH	N	CH	3-phenylcyclopentyl
2849	CH	CH	CH	N	CH	6-phenyl-3-tetrahydropyranyl
2850	CH	CH	CH	N	CH	6-(3-fluorophenyl)-3-tetrahydropyranyl
2851	CH	CH	CH	N	CH	2-phenylcyclopropyl
2852	CH	CH	CH	N	CH	2-(2-pyridyl)cyclopropyl
2853	CH	CH	CH	N	CH	2-(3-pyridyl)cyclopropyl
2854	CH	CH	CH	N	CH	2-(4-pyridyl)cyclopropyl
2855	CH	CH	CH	N	CH	2-(3-fluorophenyl)cyclopropyl
2856	CH	CH	CH	N	CH	2-indanyl
2857	CH	CH	CH	N	CH	2-tetrahydronaphthyl
2858	CH	CH	CH	N	CH	6-methoxy-2-tetrahydronaphthyl
2859	CH	CH	CH	N	CH	benzyl
2860	CH	CH	CH	N	CH	phenethyl
2861	CH	CH	CH	N	CH	3-phenylpropyl
2862	CH	CH	CH	N	CH	4-phenylbutyl
2863	CH	CH	CH	N	CH	2-methoxyphenethyl
2864	CH	CH	CH	N	CH	3-methoxyphenethyl
2865	CH	CH	CH	N	CH	4-methoxyphenethyl
2866	CH	CH	CH	N	CH	4-fluorophenethyl
2867	CH	CH	CH	N	CH	4-bromophenethyl
2868	CH	CH	CH	N	CH	4-chlorophenethyl
2869	CH	CH	CH	N	CH	3-trifluoromethylphenethyl
2870	CH	CH	CH	N	CH	3,4-dimethoxyphenethyl
2871	CH	CH	CH	N	CH	3-propoxyphenethyl

(continued from Table 3)

2872	CH	CH	CH	N	CH	3,5-difluorophenethyl
2873	CH	CH	CH	N	CH	4-dimethylaminophenethyl
2874	CH	CH	CH	N	CH	3-difluoromethoxyphenethyl
2875	CH	CH	CH	N	CH	2-methylphenethyl
2876	CH	CH	CH	N	CH	4-acetylphenethyl
2877	CH	CH	CH	N	CH	4-dimethylamino-2-methoxy-phenethyl
2878	CH	CH	CH	N	CH	cyclohexylethyl
2879	CH	CH	CH	N	CH	2-(2-pyridyl)ethyl
2880	CH	CH	CH	N	CH	2-(3-pyridyl)ethyl
2881	CH	CH	CH	N	CH	2-(4-pyridyl)ethyl
2882	CH	CH	CH	N	CH	2-(2-quinolyl)ethyl
2883	CH	CH	CH	N	CH	2-(3-quinolyl)ethyl
2884	CH	CH	CH	N	CH	2-(4-quinolyl)ethyl
2885	CH	CH	CH	N	CH	2-(6-quinolyl)ethyl
2886	CH	CH	CH	N	CH	2-(2-indolyl)ethyl
2887	CH	CH	CH	N	CH	2-(3-indolyl)ethyl
2888	CH	CH	CH	N	CH	2-(7-aza-3-indolyl)ethyl
2889	CH	CH	CH	N	CH	2-(benzimidazolyl)ethyl
2890	CH	CH	CH	N	CH	2-(benzoxazolyl)ethyl
2891	CH	CH	CH	N	CH	2-(benzothiazolyl)ethyl
2892	CH	CH	CH	N	CH	2-(1-naphthyl)ethyl
2893	CH	CH	CH	N	CH	2-(2-naphthyl)ethyl
2894	CH	CH	CH	N	CH	1-(hydroxymethyl)-2-phenylethyl
2895	CH	CH	CH	N	CH	1-(methoxycarbonyl)-2-phenylethyl
2896	CH	CH	CH	N	CH	1-(ethoxycarbonyl)-2-phenylethyl
2897	CH	CH	CH	N	CH	1-carboxy-2-phenylethyl
2898	CH	CH	CH	N	CH	1-(benzyloxycarbonyl)-2-phenylethyl
2899	CH	CH	CH	N	CH	1-(phenoxymethyl)-2-phenylethyl
2900	CH	CH	CH	N	CH	1-(benzyloxymethyl)-2-phenyl-ethyl
2901	CH	CH	CH	N	CH	1-(benzylcarbamoyl)-2-phenylethyl
2902	CH	CH	CH	N	CH	1-(N-methylbenzylcarbamoyl)-2-phenylethyl
2903	CH	CH	CH	N	CH	1-(phenylcarbamoyl)-2-phenyl-ethyl
2904	CH	CH	CH	N	CH	1-(N-methylphenylcarbamoyl)-2-phenylethyl
2905	CH	CH	CH	N	CH	1-(N-benzylaminomethyl)-2-phenylethyl

(continued from Table 3)

2906	CH	CH	CH	N	CH	1-(N-benzyl-N-methylamino-methyl)-2-phenylethyl
2907	CH	CH	CH	N	CH	1-(anilinomethyl)-2-phenylethyl
2908	CH	CH	CH	N	CH	1-(N-methylanilinomethyl)-2-phenylethyl
2909	CH	CH	CH	N	CH	1-(N-methylaminomethyl)-2-phenylethyl
2910	CH	CH	CH	N	CH	1-(N-ethylaminomethyl)-2-phenylethyl
2911	CH	CH	CH	N	CH	1-(N-isobutylaminomethyl)-2-phenylethyl
2912	CH	CH	CH	N	CH	1-(N-cyclopropylmethylamino-methyl)-2-phenylethyl
2913	CH	CH	CH	N	CH	1-(aminomethyl)-2-phenylethyl
2914	CH	CH	CH	N	CH	1-benzyl-2-(2-pyridylmethyl-amino)ethyl
2915	CH	CH	CH	N	CH	1-benzyl-2-(3-pyridylmethyl-amino)ethyl
2916	CH	CH	CH	N	CH	1-benzyl-2-(4-pyridylmethyl-amino)ethyl
2917	CH	CH	CH	N	CH	2-phenyl-1-(2-pyridylmethyl-carbamoyl)ethyl
2918	CH	CH	CH	N	CH	2-phenyl-1-(3-pyridylmethyl-carbamoyl)ethyl
2919	CH	CH	CH	N	CH	2-phenyl-1-(4-pyridylmethyl-carbamoyl)ethyl
2920	CH	CH	CH	N	CH	2-hydroxy-2-phenylethyl
2921	CH	CH	CH	N	CH	benzoylmethyl
2922	CH	CH	CH	N	CH	1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl
2923	CH	CH	CH	N	CH	1-(benzyloxycarbonyl)-2-cyclohexylethyl
2924	CH	CH	CH	N	CH	1-(phenoxymethyl)-2-(3-indolyl)ethyl
2925	CH	CH	CH	N	CH	2-(2-methoxyphenoxy)ethyl
2926	CH	CH	CH	N	CH	1-(benzylcarbamoyl)-2-cyclohexylethyl
2927	CH	CH	CH	N	CH	1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl
2928	CH	CH	CH	N	CH	1-(phenylcarbamoyl)-2-cyclohexylethyl
2929	CH	CH	CH	N	CH	1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
2930	CH	CH	CH	N	CH	1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl

(continued from Table 3)

2931	CH	CH	CH	N	CH	1-(benzylaminomethyl)-2-(3-pyridyl)ethyl
2932	CH	CH	CH	N	CH	1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl
2933	CH	CH	CH	N	CH	1-(4-pyridylmethylcarbamoyl)-2-(4-fluorophenyl)ethyl
2934	CH	CH	CH	N	CH	1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
2935	CH	CH	CH	N	CH	1-(benzyloxymethyl)-2-(2-indolyl)ethyl
2936	CH	CH	CH	N	CH	1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl
2937	CH	CH	CH	N	CH	1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
2938	CH	CH	CH	N	CH	2-hydroxy-2-(4-dimethylamino-phenyl)ethyl
2939	CH	CH	CH	N	CH	2-hydroxy-2-(2-quinolyl)ethyl
2940	CH	CH	CH	N	CH	2-hydroxy-2-(3-quinolyl)ethyl
2941	CH	CH	CH	N	CH	2-hydroxy-2-(4-quinolyl)ethyl
2942	CH	CH	CH	N	CH	2-hydroxy-2-(3,5-difluoro-phenyl)ethyl
2943	CH	CH	CH	N	CH	1-carboxy-2-cyclohexylethyl
2944	CH	CH	CH	N	CH	2-hydroxy-2-(6-quinolyl)ethyl
2945	CH	CH	CH	N	CH	2-(benzylamino)-2-phenylethyl
2946	CH	CH	CH	N	CH	2-amino-2-(2-naphthyl)propyl
2947	CH	CH	CH	N	CH	2-(phenylamino)ethyl
2948	CH	CH	CH	N	CH	diphenylmethyl
2949	CH	CH	CH	N	CH	2,2-diphenylethyl
2950	CH	CH	CH	N	CH	2-phenyl-2-(2-pyridyl)ethyl
2951	CH	CH	CH	N	CH	2-phenyl-2-(3-pyridyl)ethyl
2952	CH	CH	CH	N	CH	2-phenyl-2-(4-pyridyl)ethyl
2953	CH	CH	CH	N	CH	2-phenoxy-2-phenylethyl
2954	CH	CH	CH	N	CH	2-(benzyloxy)-2-phenylethyl
2955	CH	CH	CH	N	N	1-phenyl-3-pyrrolidinyl
2956	CH	CH	CH	N	N	1-(2-fluorophenyl)-3-pyrrolidinyl
2957	CH	CH	CH	N	N	1-(3-fluorophenyl)-3-pyrrolidinyl
2958	CH	CH	CH	N	N	1-(4-fluorophenyl) -3-pyrrolidinyl
2959	CH	CH	CH	N	N	1-(2-chlorophenyl)-3-pyrrolidinyl
2960	CH	CH	CH	N	N	1-(3-chlorophenyl)-3-pyrrolidinyl
2961	CH	CH	CH	N	N	1-(4-chlorophenyl)-3-pyrrolidinyl
2962	CH	CH	CH	N	N	1-(2-methylphenyl)-3-pyrrolidinyl
2963	CH	CH	CH	N	N	1-(3-methylphenyl)-3-pyrrolidinyl

(continued from Table 3)

2964	CH	CH	CH	N	N	1-(4-methylphenyl)-3-pyrrolidinyl
2965	CH	CH	CH	N	N	1-(2-methoxyphenyl)-3-pyrrolidinyl
2966	CH	CH	CH	N	N	1-(3-methoxyphenyl)-3-pyrrolidinyl
2967	CH	CH	CH	N	N	1-(4-methoxyphenyl)-3-pyrrolidinyl
2968	CH	CH	CH	N	N	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
2969	CH	CH	CH	N	N	1-(3-trifluoromethylphenyl)-3-pyrrolidinyl
2970	CH	CH	CH	N	N	1-(4-trifluoromethylphenyl)-3-pyrrolidinyl
2971	CH	CH	CH	N	N	1-(3,5-difluorophenyl)-3-pyrrolidinyl
2972	CH	CH	CH	N	N	1-(2-difluoromethoxyphenyl)-3-pyrrolidinyl
2973	CH	CH	CH	N	N	1-(3-difluoromethoxyphenyl)-3-pyrrolidinyl
2974	CH	CH	CH	N	N	1-(4-difluoromethoxyphenyl)-3-pyrrolidinyl
2975	CH	CH	CH	N	N	1-(2-pyridyl)-3-pyrrolidinyl
2976	CH	CH	CH	N	N	1-(3-pyridyl)-3-pyrrolidinyl
2977	CH	CH	CH	N	N	1-(4-pyridyl)-3-pyrrolidinyl
2978	CH	CH	CH	N	N	1-(2-pyrimidinyl)-3-pyrrolidinyl
2979	CH	CH	CH	N	N	5-oxo-1-phenyl-3-pyrrolidinyl
2980	CH	CH	CH	N	N	1-phenyl-3-piperidyl
2981	CH	CH	CH	N	N	1-(2-fluorophenyl)-3-piperidyl
2982	CH	CH	CH	N	N	1-(3-fluorophenyl)-3-piperidyl
2983	CH	CH	CH	N	N	1-(4-fluorophenyl)-3-piperidyl
2984	CH	CH	CH	N	N	1-(2-chlorophenyl)-3-piperidyl
2985	CH	CH	CH	N	N	1-(3-chlorophenyl)-3-piperidyl
2986	CH	CH	CH	N	N	1-(4-chlorophenyl)-3-piperidyl
2987	CH	CH	CH	N	N	1-(2-methylphenyl)-3-piperidyl
2988	CH	CH	CH	N	N	1-(3-methylphenyl)-3-piperidyl
2989	CH	CH	CH	N	N	1-(4-methylphenyl)-3-piperidyl
2990	CH	CH	CH	N	N	1-(2-methoxyphenyl)-3-piperidyl
2991	CH	CH	CH	N	N	1-(3-methoxyphenyl)-3-piperidyl
2992	CH	CH	CH	N	N	1-(4-methoxyphenyl)-3-piperidyl
2993	CH	CH	CH	N	N	1-(2-trifuoromethylphenyl)-3-piperidyl
2994	CH	CH	CH	N	N	1-(3-trifuoromethylphenyl)-3-piperidyl
2995	CH	CH	CH	N	N	1-(4-trifuoromethylphenyl)-3-piperidyl

(continued from Table 3)

2996	CH	CH	CH	N	N	1-(3,5-difluorophenyl)-3-piperidyl
2997	CH	CH	CH	N	N	1-(2-difluoromethoxyphenyl)-3-piperidyl
2998	CH	CH	CH	N	N	1-(3-difluoromethoxyphenyl)-3-piperidyl
2999	CH	CH	CH	N	N	1-(4-difluoromethoxyphenyl)-3-piperidiyl
3000	CH	CH	CH	N	N	1-(2-pyridyl)-3-piperidyl
3001	CH	CH	CH	N	N	1-(3-pyridyl)-3-piperidyl
3002	CH	CH	CH	N	N	1-(4-pyridyl)-3-piperidyl
3003	CH	CH	CH	N	N	1-phenyl-4-piperidyl
3004	CH	CH	CH	N	N	1-(2-fluorophenyl)-4-piperidyl
3005	CH	CH	CH	N	N	1-(3-fluorophenyl)-4-piperidyl
3006	CH	CH	CH	N	N	1-(4-fluorophenyl)-4-piperidyl
3007	CH	CH	CH	N	N	1-(2-chlorophenyl)-4-piperidyl
3008	CH	CH	CH	N	N	1-(3-chlorophenyl)-4-piperidyl
3009	CH	CH	CH	N	N	1-(4-chlorophenyl)-4-piperidyl
3010	CH	CH	CH	N	N	1-(2-methylphenyl)-4-piperidyl
3011	CH	CH	CH	N	N	1-(3-methylphenyl)-4-piperidyl
3012	CH	CH	CH	N	N	1-(4-methylphenyl)-4-piperidyl
3013	CH	CH	CH	N	N	1-(2-methoxyphenyl)-4-piperidyl
3014	CH	CH	CH	N	N	1-(3-methoxyphenyl)-4-piperidyl
3015	CH	CH	CH	N	N	1-(4-methoxyphenyl)-4-piperidyl
3016	CH	CH	CH	N	N	1-(2-trifluoromethylphenyl)-4-piperidyl
3017	CH	CH	CH	N	N	1-(3-trifluoromethylphenyl)-4-piperidyl
3018	CH	CH	CH	N	N	1-(4-trifluoromethylphenyl)-4-piperidyl
3019	CH	CH	CH	N	N	1-(3,5-difluorophenyl)-4-piperidyl
3020	CH	CH	CH	N	N	1-(2-difluoromethoxyphenyl)-4-piperidyl
3021	CH	CH	CH	N	N	1-(3-difluoromethoxyphenyl)-4-piperidyl
3022	CH	CH	CH	N	N	1-(4-difluoromethoxyphenyl)-4-piperidyl
3023	CH	CH	CH	N	N	1-(2-pyridyl)-4-piperidyl
3024	CH	CH	CH	N	N	1-(3-pyridyl)-4-piperidyl
3025	CH	CH	CH	N	N	1-(4-pyridyl)-4-piperidyl
3026	CH	CH	CH	N	N	3-hydroxymethyl-1-phenyl-4-piperidyl

(continued from Table 3)

3027	CH	CH	CH	N	N	3-methoxycarbonyl-1-phenyl-4-piperidyl
3028	CH	CH	CH	N	N	3-ethoxycarbonyl-1-phenyl-4-piperidyl
3029	CH	CH	CH	N	N	3-isopropoxycarbonyl-1-phenyl-4-piperidyl
3030	CH	CH	CH	N	N	4-phenylcyclohexyl
3031	CH	CH	CH	N	N	4-(2-fluorophenyl)cyclohexyl
3032	CH	CH	CH	N	N	4-(3-fluorophenyl)cyclohexyl
3033	CH	CH	CH	N	N	4-(4-fluorophenyl)cyclohexyl
3034	CH	CH	CH	N	N	4-(2-chlorophenyl)cyclohexyl
3035	CH	CH	CH	N	N	4-(3-chlorophenyl)cyclohexyl
3036	CH	CH	CH	N	N	4-(4-chlorophenyl)cyclohexyl
3037	CH	CH	CH	N	N	4-(2-methylphenyl)cyclohexyl
3038	CH	CH	CH	N	N	4-(3-methylphenyl)cyclohexyl
3039	CH	CH	CH	N	N	4-(4-methylphenyl)cyclohexyl
3040	CH	CH	CH	N	N	4-(2-methoxyphenyl)cyclohexyl
3041	CH	CH	CH	N	N	4-(3-methoxyphenyl)cyclohexyl
3042	CH	CH	CH	N	N	4-(4-methoxyphenyl)cyclohexyl
3043	CH	CH	CH	N	N	4-(2-trifluoromethylphenyl)cyclohexyl
3044	CH	CH	CH	N	N	4-(3-trifluoromethylphenyl)cyclohexyl
3045	CH	CH	CH	N	N	4-(4-trifluoromethylphenyl)cyclohexyl
3046	CH	CH	CH	N	N	4-(3,5-difluorophenyl)cyclohexyl
3047	CH	CH	CH	N	N	4-(3-acetylphenyl)cyclohexyl
3048	CH	CH	CH	N	N	4-(3-cyanophenyl)cyclohexyl
3049	CH	CH	CH	N	N	4-(2-difluoromethoxyphenyl)cyclohexyl
3050	CH	CH	CH	N	N	4-(3-difluoromethoxyphenyl)cyclohexyl
3051	CH	CH	CH	N	N	4-(4-difluoromethoxyphenyl)cyclohexyl
3052	CH	CH	CH	N	N	4-(2-pyridyl)cyclohexyl
3053	CH	CH	CH	N	N	4-(3-pyridyl)cyclohexyl
3054	CH	CH	CH	N	N	4-(4-pyridyl)cyclohexyl
3055	CH	CH	CH	N	N	4-(4-fluoro-3-pyridyl)cyclohexyl
3056	CH	CH	CH	N	N	4-(3-quinolyl)cyclohexyl
3057	CH	CH	CH	N	N	4-(3-fluorophenyl)-4-hydroxy-cyclohexyl
3058	CH	CH	CH	N	N	3-phenylcyclohexyl

(continued from Table 3)

3059	CH	CH	CH	N	N	3-phenylcyclopentyl
3060	CH	CH	CH	N	N	6-phenyl-3-tetrahydropyranyl
3061	CH	CH	CH	N	N	6-(3-fluorophenyl)-3-tetrahydropyranyl
3062	CH	CH	CH	N	N	2-phenylcyclopropyl
3063	CH	CH	CH	N	N	2-(2-pyridyl)cyclopropyl
3064	CH	CH	CH	N	N	2-(3-pyridyl)cyclopropyl
3065	CH	CH	CH	N	N	2-(4-pyridyl)cyclopropyl
3066	CH	CH	CH	N	N	2-(3-fluorophenyl)cyclopropyl
3067	CH	CH	CH	N	N	2-indanyl
3068	CH	CH	CH	N	N	2-tetrahydronaphthyl
3069	CH	CH	CH	N	N	6-methoxy-2-tetrahydronaphthyl
3070	CH	CH	CH	N	N	benzyl
3071	CH	CH	CH	N	N	phenethyl
3072	CH	CH	CH	N	N	3-phenylpropyl
3073	CH	CH	CH	N	N	4-phenylbutyl
3074	CH	CH	CH	N	N	2-methoxyphenethyl
3075	CH	CH	CH	N	N	3-methoxyphenethyl
3076	CH	CH	CH	N	N	4-methoxyphenethyl
3077	CH	CH	CH	N	N	4-fluorophenethyl
3078	CH	CH	CH	N	N	4-bromophenethyl
3079	CH	CH	CH	N	N	4-chlorophenethyl
3080	CH	CH	CH	N	N	3-trifluoromethylphenethyl
3081	CH	CH	CH	N	N	3,4-dimethoxyphenethyl
3082	CH	CH	CH	N	N	3-propoxyphenethyl
3083	CH	CH	CH	N	N	3,5-difluorophenethyl
3084	CH	CH	CH	N	N	4-dimethylaminophenethyl
3085	CH	CH	CH	N	N	3-difluoromethoxyphenethyl
3086	CH	CH	CH	N	N	2-methylphenethyl
3087	CH	CH	CH	N	N	4-acetylphenethyl
3088	CH	CH	CH	N	N	4-dimethylamino-2-methoxyphenethyl
3089	CH	CH	CH	N	N	cyclohexylethyl
3090	CH	CH	CH	N	N	2-(2-pyridyl)ethyl
3091	CH	CH	CH	N	N	2-(3-pyridyl)ethyl
3092	CH	CH	CH	N	N	2-(4-pyridyl)ethyl
3093	CH	CH	CH	N	N	2-(2-quinolyl)ethyl
3094	CH	CH	CH	N	N	2-(3-quinolyl)ethyl
3095	CH	CH	CH	N	N	2-(4-quinolyl)ethyl
3096	CH	CH	CH	N	N	2-(6-quinolyl)ethyl

(continued from Table 3)

3097	CH	CH	CH	N	N	2-(2-indolyl)ethyl
3098	CH	CH	CH	N	N	2-(3-indolyl)ethyl
3099	CH	CH	CH	N	N	2-(7-aza-3-indolyl)ethyl
3100	CH	CH	CH	N	N	2-(benzimidazolyl)ethyl
3101	CH	CH	CH	N	N	2-(benzoxazolyl)ethyl
3102	CH	CH	CH	N	N	2-(benzothiazolyl)ethyl
3103	CH	CH	CH	N	N	2-(1-naphthyl)ethyl
3104	CH	CH	CH	N	N	2-(2-naphthyl)ethyl
3105	CH	CH	CH	N	N	1-(hydroxymethyl)-2-phenylethyl
3106	CH	CH	CH	N	N	1-(methoxycarbonyl)-2-phenylethyl
3107	CH	CH	CH	N	N	1-(ethoxycarbonyl)-2-phenylethyl
3108	CH	CH	CH	N	N	1-carboxy-2-phenylethyl
3109	CH	CH	CH	N	N	1-(benzyloxycarbonyl)-2-phenyl-ethyl
3110	CH	CH	CH	N	N	1-(phenoxymethyl)-2-phenylethyl
3111	CH	CH	CH	N	N	1-(benzyloxymethyl)-2-phenylethyl
3112	CH	CH	CH	N	N	1-(benzylcarbamoyl)-2-phenylethyl
3113	CH	CH	CH	N	N	1-(N-methylbenzylcarbamoyl)-2-phenylethyl
3114	CH	CH	CH	N	N	1-(phenylcarbamoyl)-2-phenylethyl
3115	CH	CH	CH	N	N	1-(N-methylphenylcarbamoyl)-2-phenylethyl
3116	CH	CH	CH	N	N	1-(N-benzylaminomethyl)-2-phenylethyl
3117	CH	CH	CH	N	N	1-(N-benzyl-N-methylaminomethyl)-2-phenylethyl
3118	CH	CH	CH	N	N	1-(anilinomethyl)-2-phenylethyl
3119	CH	CH	CH	N	N	1-(N-methylanilinomethyl)-2-phenylethyl
3120	CH	CH	CH	N	N	1-(N-methylaminomethyl)-2-phenylethyl
3121	CH	CH	CH	N	N	1-(N-ethylaminomethyl)-2-phenylethyl
3122	CH	CH	CH	N	N	1-(N-isobutylaminomethyl)-2-phenylethyl
3123	CH	CH	CH	N	N	1-(N-cyclopropylmethylamino-methyl)-2-phenylethyl
3124	CH	CH	CH	N	N	1-(aminomethyl)-2-phenylethyl
3125	CH	CH	CH	N	N	1- benzyl-2-(2-pyridylmethyl-amino)ethyl
3126	CH	CH	CH	N	N	1-benzyl-2-(3-pyridylmethyl-amino)ethyl

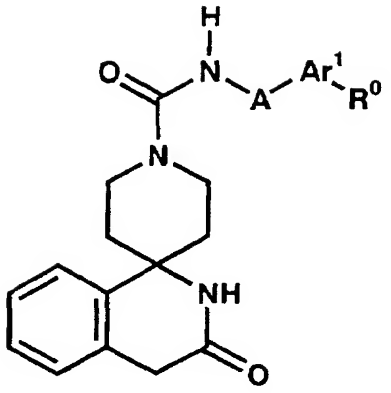
(continued from Table 3)

3127	CH	CH	CH	N	N	1-benzyl-2-(4-pyridylmethyl-amino)ethyl
3128	CH	CH	CH	N	N	2-phenyl-1-(2-pyridylmethyl-carbamoyl)ethyl
3129	CH	CH	CH	N	N	2-phenyl-1-(3-pyridylmethyl-carbamoyl)ethyl
3130	CH	CH	CH	N	N	2-phenyl-1-(4-pyridylmethyl-carbamoyl)ethyl
3131	CH	CH	CH	N	N	2-hydroxy-2-phenylethyl
3132	CH	CH	CH	N	N	benzoylmethyl
3133	CH	CH	CH	N	N	1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl
3134	CH	CH	CH	N	N	1-(benzyloxycarbonyl)-2-cyclohexylethyl
3135	CH	CH	CH	N	N	1-(phenoxymethyl)-2-(3-indolyl)ethyl
3136	CH	CH	CH	N	N	2-(2-methoxyphenoxy)ethyl
3137	CH	CH	CH	N	N	1-(benzylcarbamoyl)-2-cyclohexylethyl
3138	CH	CH	CH	N	N	1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl
3139	CH	CH	CH	N	N	1-(phenylcarbamoyl)-2-cyclohexylethyl
3140	CH	CH	CH	N	N	1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
3141	CH	CH	CH	N	N	1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl
3142	CH	CH	CH	N	N	1-(benzylaminomethyl)-2-(3-pyridyl)ethyl
3143	CH	CH	CH	N	N	1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl
3144	CH	CH	CH	N	N	1-(4-pyridylmethylcarbamoyl)-2-(4-fluorophenyl)ethyl
3145	CH	CH	CH	N	N	1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
3146	CH	CH	CH	N	N	1-(benzyloxymethyl)-2-(2-indolyl)ethyl
3147	CH	CH	CH	N	N	1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl
3148	CH	CH	CH	N	N	1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
3149	CH	CH	CH	N	N	2- hydroxy-2-(4-dimethylamino-phenyl)ethyl
3150	CH	CH	CH	N	N	2-hydroxy-2-(2-quinolyl)ethyl

(continued from Table 3)

3151	CH	CH	CH	N	N	2-hydroxy-2-(3-quinolyl)ethyl
3152	CH	CH	CH	N	N	2-hydroxy-2-(4-quinolyl)ethyl
3153	CH	CH	CH	N	N	3- hydroxy-2-(3,5-difluoro-phenyl)ethyl
3154	CH	CH	CH	N	N	1-carboxy-2-cyclohexylethyl
3155	CH	CH	CH	N	N	2-hydroxy-2-(6-quinolyl)ethyl
3156	CH	CH	CH	N	N	2-(benzylamino)-2-phenylethyl
3157	CH	CH	CH	N	N	2-amino-2-(2-naphthyl)propyl
3158	CH	CH	CH	N	N	2-(phenylamino)ethyl
3159	CH	CH	CH	N	N	diphenylmethyl
3160	CH	CH	CH	N	N	2,2-diphenylethyl
3161	CH	CH	CH	N	N	2-phenyl-2-(2-pyridyl)ethyl
3162	CH	CH	CH	N	N	2-phenyl-2-(3-pyridyl)ethyl
3163	CH	CH	CH	N	N	2-phenyl-2-(4-pyridyl)ethyl
3164	CH	CH	CH	N	N	2-phenoxy-2-phenylethyl
3165	CH	CH	CH	N	N	2-(benzyloxy)-2-phenylethyl

Table 4



No.	A-Ar^1-R^0
3157'	1-phenyl-3-pyrrolidinyl
3158'	1-(2-fluorophenyl)-3-pyrrolidinyl
3159'	1-(3-fluorophenyl)-3-pyrrolidinyl
3160'	1-(4-fluorophenyl)-3-pyrrolidinyl
3161'	1-(2-chlorophenyl)-3-pyrrolidinyl
3162'	1-(3-chlorophenyl)-3-pyrrolidinyl
3163'	1-(4-chlorophenyl)-3-pyrrolidinyl
3164'	1-(2-methylphenyl)-3-pyrrolidinyl
3165'	1-(3-methylphenyl)-3-pyrrolidinyl
3166	1-(4-methylphenyl)-3-pyrrolidinyl
3167	1-(2-methoxyphenyl)-3-pyrrolidinyl
3168	1-(3-methoxyphenyl)-3-pyrrolidinyl
3169	1-(4-methoxyphenyl)-3-pyrrolidinyl
3170	1-(2-trifluoromethylphenyl)-3-pyrrolidinyl
3171	1-(3-trifluoromethylphenyl)-3-pyrrolidinyl
3172	1-(4-trifluoromethylphenyl)-3-pyrrolidinyl
3173	1-(3,5-difluorophenyl)-3-pyrrolidinyl
3174	1-(2-difluoromethoxyphenyl)-3-pyrrolidinyl
3175	1-(3-difluoromethoxyphenyl)-3-pyrrolidinyl
3176	1-(4-difluoromethoxyphenyl)-3-pyrrolidinyl
3177	1-(2-pyridyl)-3-pyrrolidinyl
3178	1-(3-pyridyl)-3-pyrrolidinyl
3179	1-(4-pyridyl)-3-pyrrolidinyl
3180	1-(2-pyrimidinyl)-3-pyrrolidinyl

(continued from Table 4)

3181 5-oxo-1-phenyl-3-pyrrolidinyl
3182 1-phenyl-3-piperidyl
3183 1-(2-fluorophenyl)-3-piperidyl
3184 1-(3-fluorophenyl)-3-piperidyl
3185 1-(4-fluorophenyl)-3-piperidyl
3186 1-(2-chlorophenyl)-3-piperidyl
3187 1-(3-chlorophenyl)-3-piperidyl
3188 1-(4-chlorophenyl)-3-piperidyl
3189 1-(2-methylphenyl)-3-piperidyl
3190 1-(3-methylphenyl)-3-piperidyl
3191 1-(4-methylphenyl)-3-piperidyl
3192 1-(2-methoxyphenyl)-3-piperidyl
3193 1-(3-methoxyphenyl)-3-piperidyl
3194 1-(4-methoxyphenyl)-3-piperidyl
3195 1-(2-trifluoromethylphenyl)-3-piperidyl
3196 1-(3-trifluoromethylphenyl)-3-piperidyl
3197 1-(4-trifluoromethylphenyl)-3-piperidyl
3198 1-(3,5-difluorophenyl)-3-piperidyl
3199 1-(2-difluoromethoxyphenyl)-3-piperidyl
3200 1-(3-difluoromethoxyphenyl)-3-piperidyl
3201 1-(4-difluoromethoxyphenyl)-3-piperidyl
3202 1-(2-pyridyl)-3-piperidyl
3203 1-(3-pyridyl)-3-piperidyl
3204 1-(4-pyridyl)-3-piperidyl
3205 1-phenyl-4-piperidyl
3206 1-(2-fluorophenyl)-4-piperidyl
3207 1-(3-fluorophenyl)-4-piperidyl
3208 1-(4-fluorophenyl)-4-piperidyl
3209 1-(2-chlorophenyl)-4-piperidyl
3210 1-(3-chlorophenyl)-4-piperidyl
3211 1-(4-chlorophenyl)-4-piperidyl
3212 1-(2-methylphenyl)-4-piperidyl
3213 1-(3-methylphenyl)-4-piperidyl
3214 1-(4-methylphenyl)-4-piperidyl
3215 1-(2-methoxyphenyl)-4-piperidyl
3216 1-(3-methoxyphenyl)-4-piperidyl
3217 1-(4-methoxyphenyl)-4-piperidyl
3218 1-(2-trifluoromethylphenyl)-4-piperidyl
3219 1-(3-trifluoromethylphenyl)-4-piperidyl
3220 1-(4-trifluoromethylphenyl)-4-piperidyl

(continued from Table 4)

3221 1-(3,5-difluorophenyl)-4-piperidyl
3222 1-(2-difluoromethoxyphenyl)-4-piperidyl
3223 1-(3-difluoromethoxyphenyl)-4-piperidyl
3224 1-(4-difluoromethoxyphenyl)-4-piperidyl
3225 1-(2-pyridyl)-4-piperidyl
3226 1-(3-pyridyl)-4-piperidyl
3227 1-(4-pyridyl)-4-piperidyl
3228 3-hydroxymethyl-1-phenyl-4-piperidyl
3229 3-methoxycarbonyl-1-phenyl-4-piperidyl
3230 3-ethoxycarbonyl-1-phenyl-4-piperidyl
3231 3-isopropoxycarbonyl-1-phenyl-4-piperidyl
3232 4-phenylcyclohexyl
3233 4-(2-fluorophenyl)cyclohexyl
3234 4-(3-fluorophenyl)cyclohexyl
3235 4-(4-fluorophenyl)cyclohexyl
3236 4-(2-chlorophenyl)cyclohexyl
3237 4-(3-chlorophenyl)cyclohexyl
3238 4-(4-chlorophenyl)cyclohexyl
3239 4-(2-methylphenyl)cyclohexyl
3240 4-(3-methylphenyl)cyclohexyl
3241 4-(4-methylphenyl)cyclohexyl
3242 4-(2-methoxyphenyl)cyclohexyl
3243 4-(3-methoxyphenyl)cyclohexyl
3244 4-(4-methoxyphenyl)cyclohexyl
3245 4-(2-trifluoromethylphenyl)cyclohexyl
3246 4-(3-trifluoromethylphenyl)cyclohexyl
3247 4-(4-trifluoromethylphenyl)cyclohexyl
3248 4-(3,5-difluorophenyl)cyclohexyl
3249 4-(3-acetylphenyl)cyclohexyl
3250 4-(3-cyanophenyl)cyclohexyl
3251 4-(2-difluoromethoxyphenyl)cyclohexyl
3252 4-(3-difluoromethoxyphenyl)cyclohexyl
3253 4-(4-difluoromethoxyphenyl)cyclohexyl
3254 4-(2-pyridyl)cyclohexyl
3255 4-(3-pyridyl)cyclohexyl
3256 4-(4-pyridyl)cyclohexyl
3257 4-(4-fluoro-3-pyridyl)cyclohexyl
3258 4-(3-quinolyl)cyclohexyl
3259 4-(3-fluorophenyl)-4-hydroxycyclohexyl
3260 3-phenylcyclohexyl

(continued from Table 4)

3261 3-phenylcyclopentyl
3262 6-phenyl-3-tetrahydropyranyl
3263 6-(3-fluorophenyl)-3-tetrahydropyranyl
3264 2-phenylcyclopropyl
3265 2-(2-pyridyl)cyclopropyl
3266 2-(3-pyridyl)cyclopropyl
3267 2-(4-pyridyl)cyclopropyl
3268 2-(3-fluorophenyl)cyclopropyl
3269 2-indanyl
3270 2-tetrahydronaphthyl
3271 6-methoxy-2-tetrahydronaphthyl
3272 benzyl
3273 phenethyl
3274 3-phenylpropyl
3275 4-phenylbutyl
3276 2-methoxyphenethyl
3277 3-methoxyphenethyl
3278 4-methoxyphenethyl
3279 4-fluorophenethyl
3280 4-bromophenethyl
3281 4-chlorophenethyl
3282 3-trifluoromethylphenethyl
3283 3,4-dimethoxyphenethyl
3284 3-propoxyphenethyl
3285 3,5-difluorophenethyl
3286 4-dimethylaminophenethyl
3287 3-difluoromethoxyphenethyl
3288 2-methylphenethyl
3289 4-acetylphenethyl
3290 4-dimethylamino-2-methoxyphenethyl
3291 cyclohexylethyl
3292 2-(2-pyridyl)ethyl
3293 2-(3-pyridyl)ethyl
3294 2-(4-pyridyl)ethyl
3295 2-(2-quinolyl)ethyl
3296 2-(3-quinolyl)ethyl
3297 2-(4-quinolyl)ethyl
3298 2-(6-quinolyl)ethyl
3299 2-(2-indolyl)ethyl
3300 2-(3-indolyl)ethyl

(continued from Table 4)

3301 2-(7-aza-3-indolyl)ethyl
3302 2-(benzimidazolyl)ethyl
3303 2-(benzoxazolyl)ethyl
3304 2-(benzothiazolyl)ethyl
3305 2-(1-naphthyl)ethyl
3306 2-(2-naphthyl)ethyl
3307 1-(hydroxymethyl)-2-phenylethyl
3308 1-(methoxycarbonyl)-2-phenylethyl
3309 1-(ethoxycarbonyl)-2-phenylethyl
3310 1-carboxy-2-phenylethyl
3311 1-(benzyloxycarbonyl)-2-phenylethyl
3312 1-(phenoxymethyl)-2-phenylethyl
3313 1-(benzyloxymethyl)-2-phenylethyl
3314 1-(benzylcarbamoyl)-2-phenylethyl
3315 1-(N-methylbenzylcarbamoyl)-2-phenylethyl
3316 1-(phenylcarbamoyl)-2-phenylethyl
3317 1-(N-methylphenylcarbamoyl)-2-phenylethyl
3318 1-(N-benzylaminomethyl)-2-phenylethyl
3319 1-(N-benzyl-N-methylaminomethyl)-2-phenylethyl
3320 1-(anilinomethyl)-2-phenylethyl
3321 1-(N-methylanilinomethyl)-2-phenylethyl
3322 1-(N-methylaminomethyl)-2-phenylethyl
3323 1-(N-ethylaminomethyl)-2-phenylethyl
3324 1-(N-isobutylaminomethyl)-2-phenylethyl
3325 1-(N-cyclopropylmethylaminomethyl)-2-phenylethyl
3326 1-(aminomethyl)-2-phenylethyl
3327 1-benzyl-2-(2-pyridylmethylamino)ethyl
3328 1-benzyl-2-(3-pyridylmethylamino)ethyl
3329 1-benzyl-2-(4-pyridylmethylamino)ethyl
3330 2-phenyl-1-(2-pyridylmethylcarbamoyl)ethyl
3331 2-phenyl-1-(3-pyridylmethylcarbamoyl)ethyl
3332 2-phenyl-1-(4-pyridylmethylcarbamoyl)ethyl
3333 2-hydroxy-2-phenylethyl
3334 benzoylmethyl
3335 1-(benzyloxycarbonyl)-2-(3-indolyl)ethyl
3336 1-(benzyloxycarbonyl)-2-cyclohexylethyl
3337 1-(phenoxymethyl)-2-(3-indolyl)ethyl
3338 2-(2-methoxyphenoxyy)ethyl
3339 1-(benzylcarbamoyl)-2-cyclohexylethyl
3340 1-(N-methylbenzylcarbamoyl)-2-cyclohexylethyl

(continued from Table 4)

3341	1-(phenylcarbamoyl)-2-cyclohexylethyl
3342	1-(N-methylphenylcarbamoyl)-2-cyclohexylethyl
3343	1-(benzyloxycarbonyl)-2-(3-pyridyl)ethyl
3344	1-(benzylaminomethyl)-2-(3-pyridyl)ethyl
3345	1-(benzylcarbamoyl)-2-(4-pyridyl)ethyl
3346	1-(4-pyridylmethylcarbamoyl)-2-(4-fluorophenyl)ethyl
3347	1-(benzylcarbamoyl)-2-(7-aza-3-indolyl)ethyl
3348	1-(benzyloxymethyl)-2-(2-indolyl)ethyl
3349	1-(N-benzyl-N-methylaminomethyl)-2-(3-pyridyl)ethyl
3350	1-(N-methylbenzylcarbamoyl)-2-(3-pyridyl)ethyl
3351	2-hydroxy-2-(4-dimethylaminophenyl)ethyl
3352	2-hydroxy-2-(2-quinolyl)ethyl
3353	2-hydroxy-2-(3-quinolyl)ethyl
3354	2-hydroxy-2-(4-quinolyl)ethyl
3355	2-hydroxy-2-(3,5-difluorophenyl)ethyl
3356	1-carboxy-2-cyclohexylethyl
3357	2-hydroxy-2-(6-quinolyl)ethyl
3358	2-(benzylamino)-2-phenylethyl
3359	2-amino-2-(2-naphthyl)propyl
3360	2-(phenylamino)ethyl
3361	diphenylmethyl
3362	2,2-diphenylethyl
3363	2-phenyl-2-(2-pyridyl)ethyl
3364	2-phenyl-2-(3-pyridyl)ethyl
3365	2-phenyl-2-(4-pyridyl)ethyl
3366	2-phenoxy-2-phenylethyl
3367	2-(benzyloxy)-2-phenylethyl

[0123] Among the above compounds, the preferred examples are trans-3'-oxo-N-(trans-4-phenylcyclohexyl)spiro [cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-N-[(3S)-1-(2-fluorophenyl)-3-pyrrolidinyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-N-[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran)-4-carboxamide, trans-N-[(3S)-1-(4-fluorophenyl)-3-pyrrolidinyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-N-[1-(2-fluorophenyl)-4-piperidyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-N-[1-(3-fluorophenyl)-4-piperidyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-N-[1-(4-fluorophenyl)-4-piperidyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-3'-oxo-N-(1,2,3,4-tetrahydro-2-naphthyl)spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-N-[1-(3-fluorophenyl)-4-piperidyl]-3-oxospiro[4-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-N-[1-(3-fluorophenyl)-4-piperidyl]-3-oxospiro[5-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-N-[1-(3-fluorophenyl)-4-piperidyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-N-[1-(3-fluorophenyl)-4-piperidyl]-3-oxospiro[7-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-N-(6-methoxy-1,2,3,4-tetrahydro-2-naphthyl)-3-oxospiro[5-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-3'-oxo-N-[(3S)-5-oxo-1-phenyl-3-pyrrolidinyl]spiro-[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-N-[(3S)-1-(2-fluorophenyl)-3-pyrrolidinyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-N-[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-3-oxo-N-(trans-4-phenylcyclohexyl)spiro[5-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-3-oxo-N-(trans-4-phenylcyclohexyl)spiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-3-oxo-N-(trans-4-phenylcyclohexyl)spiro[7-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-3-oxo-N-

[(3S)-1-phenyl-3-pyrrolidinyl]spiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-3-oxo-N-[(3S)-1-(3-trifluoromethylphenyl)-3-pyrrolidinyl]spiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-3-oxo-N-[(3S)-1-(2-pyridyl)-3-pyrrolidinyl]spiro[5-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-3-oxo-N-[(3S)-1-(3-pyridyl)-3-pyrrolidinyl]spiro[5-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-N-[trans-4-(4-fluorophenyl)cyclohexyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-N-[trans-4-(3-fluorophenyl)cyclohexyl]-3-oxospiro[6-axaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-N-[trans-4-(3-fluorophenyl)cyclohexyl]-3-oxospiro[4-azaisobanzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-N-[trans-4-(3-fluorophenyl)cyclohexyl]-3-oxospiro[7-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-N-[(3S)-1-(3,5-difluorophenyl)-3-pyrrolidinyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-N-[1-(3,5-difluorophenyl)-4-piperidyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexanel-4'-carboxamide, trans-N-[3-(3-fluorophenyl)-tetrahydropyran-6-yl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-N-[trans-4-(2-fluorophenyl)cyclohexyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-N-[(S)-1-benzyl-2-(benzylamino)ethyl)-3'-oxospiro-[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-N-benzhydryl-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-1-methanesulfonyl-N-(1-phenyl-4-piperidyl)spiro-[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-(2-indanyl)-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-[1-(3-fluorophenyl)-4-piperidyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-1-methanesulfonyl-N-[1-(2-pyridyl)-4-piperidyl]spiro-[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-1-methanesulfonyl-N-(1-phenyl-3-piperidyl)spiro-[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-[1-(3,5-difluorophenyl)-3-piperidyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-1-methanesulfonyl-N-[1-(2-pyridyl)-3-piperidyl]spiro-[indoline-3,1'-cyclohexane)-4'-carboxamide, trans-1-methanesulfonyl-N-[(3S)-1-phenyl-3-pyrrolidinyl]-spiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-1-methanesulfonyl-N-[(3R)-1-phenyl-3-pyrrolidinyl]-spiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-1-methanesulfonyl-N-(2-phenylcyclopropyl)spiro-[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-1-methanesulfonyl-N-[2-(3-pyridyl)cyclopropyl]spiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-[(S)-1-benzyl-2-(benzylamino)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-[1-benzylcarbamoyl-2-(4-pyridyl)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-[2-(4-fluorophenyl)-1-[(4-pyridylmethyl)carbamoyl]-ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-(2-hydroxy-2-phenylethyl)-1-methanesulfonylspiro-[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-(benzoylmethyl)-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-[(S)-1-benzyl-2-(N-benzylmethylamino)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-[(S)-1-(N-benzylmethylcarbamoyl)-2-phenylethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-[(S)-1-(N-benzylmethylcarbamoyl)-2-(3-pyridyl)-ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-(4-dimethylaminophenethyl)-1-methanesulfonylspiro-[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-1-methanesulfonyl-N-[2-(3-quinolyl)ethyl]spiro-[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-[2-(4-dimethylaminophenyl)-2-hydroxyethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-[2-hydroxy-2-(3-quinolyl)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-[2-(3,5-difluorophenyl)-2-hydroxyethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-[(S)-1-benzyl-2-[(3-pyridylmethyl)amino]ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-[(S)-1-benzyl-2-[(2-pyridylmethyl)amino]ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-[(S)-2-anilino-1-benzylethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-[(S)-1-benzyl-2-(isobutylamino)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-1-methanesulfonyl-N-[2-phenyl-1-(methoxycarbonyl)-ethyl]spiro[indoline-3,1'-cyclohexane]-4'-carboxamide, trans-N-(1-hydroxymethyl-2-phenylethyl)-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide, 1-methanesulfonyl-N-(1-phenyl-4-piperidyl)spiro[indoline-3,4'-piperidine]-1'-carboxamide, 3-oxo-N-(1-phenyl-3-piperidyl)spiro[isobenzofuran-1(3H),4'-piperidine]-1'-carboxamide, 3-oxo-N-[(3S)-1-phenyl-3-pyrrolidinyl]spiro[isobenzofuran-1(3H),4'-piperidine]-1'-carboxamide, N-[1-benzylcarbamoyl-2-cyclohexylethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide, N-[(S)-1-benzyloxymethyl-2-cyclohexylethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide, N-[(S)-1-benzylcarbamoyl-2-phenylethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide, N-[(S)-1-benzyl-2-(benzylamino)ethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide, N-(2-indanyl)-1-methanesulfonylspiro[indoline-3,4'-piperidine]-1'-carboxamide, 1-methanesulfonyl-N-phenethylspiro[indoline-3,4'-piperidine]-1'-carboxamide, 1-methanesulfonyl-N-(3-phenylpropyl)spiro[indoline-3,4'-piperidine]-1'-carboxamide, 1-methanesulfonyl-N-(4-phenylbutyl)spiro[indoline-3,4'-piperidine]-1'-carboxamide, N-(4-bromophenethyl)-1-methanesulfonylspiro[indoline-3,4'-piperidine]-1'-carboxamide, N-(3,4-dimethoxyphenethyl)-1-methanesulfonylspiro[indoline-3,4'-piperidine]-1'-carboxamide, 1-methanesulfonyl-N-(3-methoxyphenethyl)spiro[indoline-3,4'-piperidine]-1'-carboxamide, N-(4-dimethylamino-2-methoxyphenethyl)-1-methanesulfonylspiro[indoline-3,4'-piperidine]-1'-carboxamide, N-[(S)-1-benzyloxycarbonyl-2-(3-indolyl)ethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide, N-[(R)-1-benzyloxycarbonyl-2-(3-indolyl)ethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide, N-[(S)-1-benzyloxycarbonyl-2-cyclohexylethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide, 3,4-

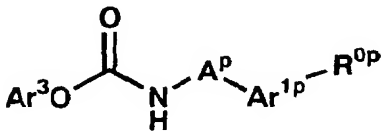
dihydro-N-(3-methoxyphenethyl)-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide, trans-N-[1-(3-trifluoromethylphenyl)-4-piperidyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-N-[trans-2-(3-fluorophenyl)cyclopropyl]-3'-oxospiro-[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-N-[trans-2-(4-fluorophenyl)cyclopropyl]-3'-oxospiro-[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-N-[1-(2-fluorophenyl)-4-piperidyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-3'-oxo-N-[5-oxo-1-(2-fluorophenyl)-3-pyrrolidinyl]-spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-3'-oxo-N-[5-oxo-1-(3-fluorophenyl)-3-pyrrolidinyl]-spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-3-oxo-N-[5-oxo-1-(3-fluorophenyl)-3-pyrrolidinyl]-spiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-N-[trans-4-(3-trifluoromethylphenyl)cyclohexyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, trans-3'-oxo-N-[2-oxo-1-phenyl-4-piperidyl]spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-3'-oxo-N-[2-oxo-1-(3-fluorophenyl)-4-piperidyl]spiro-[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-N-[trans-2-(2-fluorophenyl)cyclopropyl]-3'-oxospiro-[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide, trans-N-[trans-2-(3-fluorophenyl)cyclopropyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide or trans-N-[trans-2-(4-fluorophenyl)cyclopropyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide, and the like.

[0124] The processes for producing the compounds of the present invention are illustrated below.

[0125] The compounds (I) of the present invention can be prepared, for example, by the following production processes or the methods shown in Examples, but Manufacturing methods of the compounds (I) of the present invention are not limited to these embodiments .

Production Process 1

[0126] A compound of the formula (II):



(II)

(wherein

A^p is a straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of di-lower alkylamino, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl, $-R^{ap}$, optionally protected oxo, optionally protected amino, optionally protected lower alkylamino and optionally protected hydroxy, and is optionally intervened by oxygen or nitrogen atom;

Ar^{1p} is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, lower alkyl, halo-lower alkyl, cyclo-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, di-lower alkylamino, lower alkylthio, lower alkanoyl, lower alkoxycarbonyl, $-Q^p-Ar^{2p}$, optionally protected oxo, optionally protected hydroxy-lower alkyl, optionally protected lower alkylamino and optionally protected carboxyl;

Ar^{2p} is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, lower alkoxy, halo-lower alkoxy, di-lower alkylamino, lower alkanoyl, aryl, optionally protected hydroxy-lower alkyl, optionally protected hydroxy and optionally protected lower alkylamino;

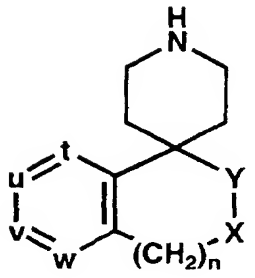
Ar^3 is phenyl which is optionally substituted by halogen or nitro;

Q^p is a single bond or optionally protected carbonyl;

R^{ap} is lower alkyl which is optionally substituted by a substituent selected from the group consisting of di-lower alkylamino, optionally protected amino, optionally protected lower alkylamino, optionally protected hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine;

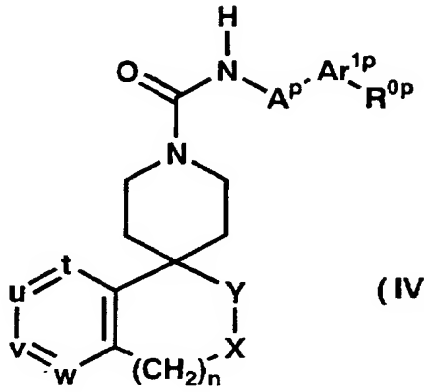
R^{0p} is hydrogen, or lower alkylene attached to an arbitrary, bondable position of A^p)

is reacted with a compound of the formula (III):



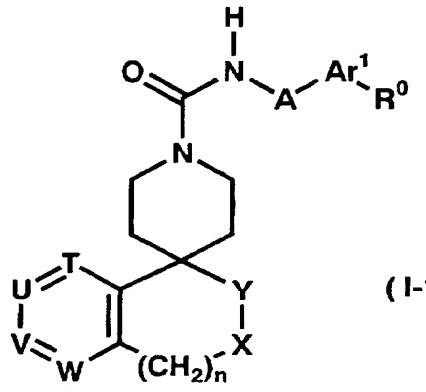
(III)

(wherein t, u, v and w are independently methine or nitrogen atom, said methine being optionally substituted by a substituent selected from the group consisting of halogen, lower alkyl, lower alkoxy and optionally protected hydroxy, and at least two of t, u, v and w are said methine group; n, X and Y have the same meaning as defined above), to provide a compound of the formula (IV-1):



(IV-1)

(wherein A^p, Ar^{1p}, n, R^{0p}, t, u, v, w, X and Y have the same meaning as defined above), optionally followed by removal of the protecting group (s) from the compound (IV-1) , thereby a compound of the formula (I-1):



(I-1)

(wherein A, Ar^1, n, R^0, T, U, V, W, X and Y have the same meaning as defined above) can be prepared.

[0127] The present process is a process for preparing a compound of the formula (I) wherein Z is nitrogen atom, that is, a compound of the formula (I-1).

[0128] In the above reaction, when a reactant has an amino, hydroxy, carboxyl, oxo, carbonyl or the like which does not participate in the reaction, the reaction may be carried out after protecting said amino, hydroxy, carboxyl, oxo or carbonyl with an amino-protecting group, a hydroxy-protecting group, a carboxyl-protecting group, or an oxo- or car-

bonyl-protecting group, and said protecting groups may be removed after completion of the reaction.

[0129] The "amino-protecting group" includes, for example, aralkyl (e.g. benzyl, p-methoxybenzyl, 3,4-dimethoxybenzyl, o-nitrobenzyl, p-nitrobenzyl, benzhydryl, trityl); lower alkanoyl (e.g. formyl, acetyl, propionyl, butyryl, pivaloyl); benzoyl; arylalkanoyl (e.g. phenylacetyl, phenoxyacetyl); lower alkoxycarbonyl (e.g. methoxycarbonyl, ethoxycarbonyl, propyloxycarbonyl, tert-butoxycarbonyl); aralkyloxycarbonyl (e.g. benzyloxycarbonyl, p-nitrobenzyloxycarbonyl, phenethyloxycarbonyl); lower alkylsilyl (e.g. trimethylsilyl, tert-butyldimethylsilyl); among which the preferred examples are acetyl, pivaloyl, benzoyl, ethoxycarbonyl, tert-butoxycarbonyl, and the like.

[0130] The "hydroxy-protecting group" includes, for example, loweralkyl (e.g. methyl, ethyl, propyl, isopropyl, tert-butyl); lower alkylsilyl (e.g. trimethylsilyl, tert-butyldimethylsilyl); lower alkoxymethyl (e.g. methoxymethyl, 2-methoxyethoxymethyl); tetrahydropyranyl; trimethylsilylethoxymethyl; aralkyl (e.g. benzyl, p-methoxybenzyl, 2,3-dimethoxybenzyl, o-nitrobenzyl, p-nitrobenzyl, trityl); acyl (e.g. formyl, acetyl); among which the preferred examples are methyl, methoxymethyl, tetrahydropyranyl, trityl, trimethylsilylethoxymethyl, tert-butyldimethylsilyl, acetyl, and the like.

[0131] The "carboxyl-protecting group" includes, for example, lower alkyl (e.g. methyl, ethyl, propyl, isopropyl, tert-butyl); halo-lower alkyl (e.g. 2,2,2-trichloroethyl); lower alkenyl (e.g. 2-propenyl); aralkyl (e.g. benzyl, p-methoxybenzyl, p-nitrobenzyl, benzhydryl, trityl), among which the preferred examples are methyl, ethyl, tert-butyl, 2-propenyl, benzyl, p-methoxybenzyl, benzhydryl, and the like.

[0132] The "oxo- or carbonyl-protecting group" includes, for example, acetal (e.g. ethylene ketal, trimethylene ketal, dimethyl ketal), ketal, and the like.

[0133] The reaction between a compound of the formula (II) and a compound of the formula (III) is usually carried out by employing equivalent to excess moles, preferably equivalent to 1.5 moles of the compound of the formula (III) based on 1 mole of the compound (II).

[0134] The reaction is usually carried out in an inert solvent, and preferable examples of such inert solvent are methylene chloride, chloroform, tetrahydrofuran, dimethylformamide, dimethylsulfoxide, etc., or a mixture thereof and the like.

[0135] It is preferable to carry out the above reaction in the presence of a base, and examples of such base are organic bases (e.g. triethylamine, diisopropylethylamine, pyridine, 4-dimethylaminopyridine) or inorganic bases (e.g. sodium hydroxide, potassium hydroxide).

[0136] The amount of the said base employed is usually equivalent to excess moles, preferably 1 to 5 moles based on 1 mole of a compound of the formula (II).

[0137] The reaction temperature is usually from -30°C to 200°C, preferably from 20°C to 100°C.

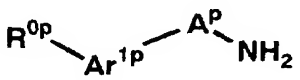
[0138] The reaction time is usually from 5 minutes to 7 days, preferably from 30 minutes to 24 hours.

[0139] Usual workup procedures are applied after completion of the reaction to obtain a crude product of a compound of the formula (IV-1). The resulting compound of the formula (IV-1) is, with or without purification according to the common method, subjected to, if desired, proper combination of removal of the protecting group(s) foramino, hydroxy, carboxyl, oxo and carbonyl, thereby a compound of the formula (I-1) can be prepared.

[0140] Although the method for the removal of said protecting groups depends upon the kinds of the protecting groups, the stability of a desired compound (I-1), etc., it is carried out by, for example, a solvolysis using an acid or a base, that is, for example a method wherein 0.01 mole to a large excess of an acid, preferably trifluoroacetic acid, formic acid, hydrochloric acid and the like, or equivalent moles to a large excess of base, preferably potassium hydroxide, calcium hydroxide and the like is acted; a chemical reduction using a metal hydride complex; or a catalytic reduction using a palladium-carbon catalyst, a Raney-nickel catalyst, etc., according to, for example, a method described in the literature (Protective Groups in Organic Synthesis, T.W.Greene, John Wiley & Sons, (1981)) or its similar methods.

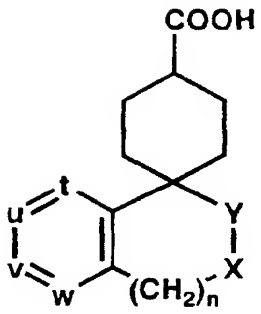
Production Process 2

[0141] A compound of the formula (V):



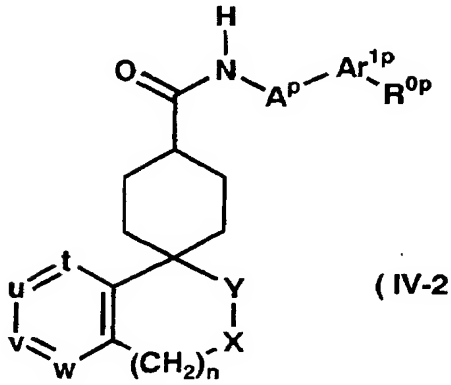
(V)

(wherein A^p, Ar^{1p} and R^{0p} have the same meaning as defined above) is reacted with a carboxylic acid of the formula (VI):



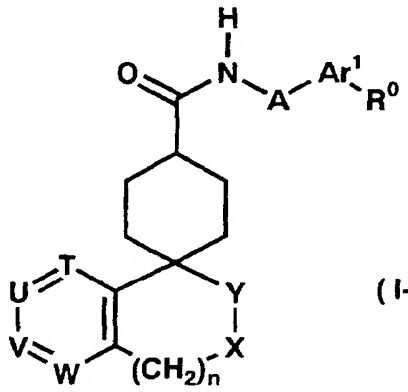
(VI)

(wherein n, t, u, v, w, X and Y have the same meaning as defined above) or a reactive derivative thereof to provide a compound of the formula (IV-2):



(IV-2)

(wherein A^p, Ar^{1p}, n, R^{0p}, t, u, v, w, X and Y have the same meaning as defined above), optionally followed by removal of the protecting group(s) from the compound (IV-2), thereby a compound of the formula (I-2):



(I-2)

(wherein A, Ar^1, n, R^0, T, U, V, W, X and Y have the same meaning as defined above) can be prepared.

[0142] The present process is a process for preparing a compound of the formula (I) wherein Z is methine group, that is, a compound of the formula (I-2).

[0143] The reaction between a compound of the formula (V) and a carboxylic acid of the formula (VI) is usually carried out by employing 0.5 to excess moles, preferably 1 mole to 1. 5 moles of the carboxylic acid of the formula (VI) based on 1 mole of the compound of the formula (V).

[0144] The reaction is usually carried out in an inert solvent, and the preferable examples of such inert solvent are

methylene chloride, chloroform, tetrahydrofuran, dimethylformamide, pyridine, etc., or a mixture thereof and the like.

[0145] It is preferable to carry out the above reaction in the presence of a condensing agent, and examples of such condensing agent are, N, N'-dicyclohexylcarbodiimide, N,N'-diisopropylcarbodiimide, 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide, 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride, benzotriazol-1-yloxy-tris-(dimethylamino)phosphoniumhexafluorophosphate, benzotriazol-1-yloxy-tris-pyrrolidinophosphoniumhexafluorophosphate, bromotris-(dimethylamino)phosphoniumhexafluorophosphate, diphenylphosphoryl azide, 1,1'-carbonyldiimidazole, and the like.

[0146] The amount of said condensing agent employedmay be usually 1 mole to excess mole, preferably 1 to 1.5 moles based on 1 mole of a compound of the formula (VI).

[0147] The reaction temperature is usually from -50°C to 100°C, preferably from -20°C to 50°C.

[0148] The reaction time is usually from 30 minutes to 7 days, preferably from 1 hour to 24 hours.

[0149] A compound of the formula (I-2) is also produced by reacting a compound of the formula (V) with an activated derivative of the carboxylic acid of the formula (VI) instead of the carboxylic acid of the formula (VI).

[0150] Examples of the activated derivatives of carboxylic acid of the formula (VI) include acid halides, mixed anhydrides, activated esters, activated amides, and the like.

[0151] The acid halides of carboxylic acid of the formula (VI) may be obtained by reacting a carboxylic acid of the formula (VI) with a halogenating agent according to the conventional method. The halogenating agent includes, for example, thionyl chloride, phosphorus trichloride, phosphorus pentachloride, phosphorus oxychloride, phosphorus tribromide, oxalyl chloride, phosgene, and the like.

[0152] The mixed anhydrides of carboxylic acid of the formula (VI) may be obtained by reacting a carboxylic acid of the formula (VI) with an alkyl chlorocarbonate such as ethyl chlorocarbonate, etc.; an aliphatic carboxylic acid chloride such as pivaloyl chloride, etc., and the like according to the conventional method.

[0153] The activated esters of carboxylic acid of the formula (VI) may be obtained by reacting a carboxylic acid of the formula (VI) with an N-hydroxy compound such as N-hydroxysuccinimide, N-hydroxyphthalimide, 1-hydroxybenzotriazole, etc.; a phenol compound such as 4-nitrophenol, 2,4-dinitrophenol, 2,4,5-trichlorophenol, pentachlorophenol, etc., and the like in the presence of a condensing agent such as N, N'-dicyclohexylcarbodiimide, 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide, etc. according to the conventional method.

[0154] The activated amides of carboxylic acid of the formula (VI) may be obtained by reacting a carboxylic acid of the formula (VI) with, for example, 1,1'-carbonyldiimidazole, 1,1'-carbonylbis(2-methylimidazole) according to the conventional method.

[0155] The reaction between a compound of the formula (V) and an activated derivative of carboxylic acid of the formula (VI) is usually carried out by employing 0.5 to excess moles, preferably 1 to 1.5 moles of the activated derivative of carboxylic acid of the formula (VI) based on 1 mole of the compound of the formula (V).

[0156] The reaction is usually carried out in an inert solvent, and the preferable examples of such inert solvent are methylene chloride, chloroform, tetrahydrofuran, dimethylformamide, pyridine, etc., or a mixture thereof and the like.

[0157] Although the above reaction proceeds in the absence of a base, it is preferred to carry out the reaction in the presence of a base to promote the reaction smoothly.

[0158] Examples of such a base are organic bases (e.g. triethylamine, diisopropylethylamine, pyridine, 4-dimethylaminopyridine) or inorganic bases (e.g. sodium hydroxide, potassium hydroxide, sodium carbonate, potassium carbonate, sodium hydrogen carbonate).

[0159] The preferable amount of said base is usually 1 to excess moles based on 1 mole of a compound of the formula (V). Also, when the base is a liquid, such base can also be used as a solvent.

[0160] The reaction temperature is usually from -50°C to 100°C, preferably from -20°C to 50°C.

[0161] The reaction time is usually from 5 minutes to 7 days, preferably from 30 minutes to 24 hours.

[0162] A compound of the formula (I-2) can be produced by working up the resulting product in the usual way after removal of the said protecting group (s) when the product has a protecting group after completion of the reaction, or by working up the resulting product directly in the usual way when the protecting group is absent.

[0163] The removal of the protecting group(s) and the workup procedure may be carried out according to the method described in the above Production Process 1.

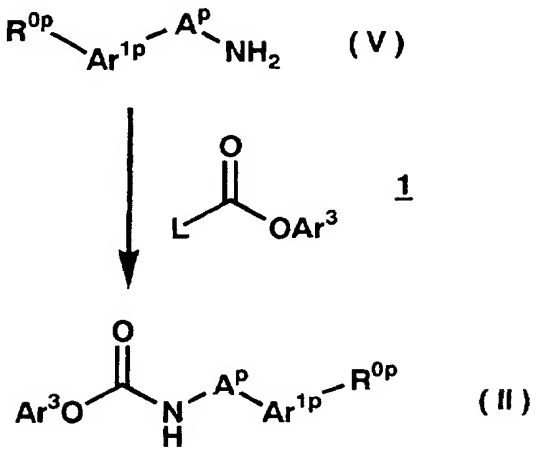
[0164] The compound of the formula (I-1) or (I-2) may be readily isolated and purified by the conventional separation technique, and examples of such technique are solvent extraction, recrystallization, column chromatography, preparative thin layer chromatography and the like.

[0165] These compounds can be converted into the pharmaceutically acceptable salts or esters by the conventional method, and on the contrary, the conversion of the salts or esters into free compounds can also be carried out according to the conventional method.

[0166] Compounds of the formula (II), (III), (V) or (VI) is commercially available, or can be prepared according to the methods described in the literatures (Japanese Patent Unexamined Publication No. 94/263737-A, U.S. Patent No. 3301857, J. Org. Chem, 40, p.1427 (1975), International Patent Publication WO95/28389 and the like), or analogous

methods thereto or the methods shown below or in Examples, optionally in combination.

Production Process A



[0167] In the above reaction scheme, L is halogen; A^p, Ar^{1p}, Ar^3 and R^{0p} have the same meaning as defined above.

[0168] The present process is a process for preparing a compound of the formula (II). According to the present process, the compound of the formula (II) can be prepared by reacting a compound of the formula (V) with a compound of the formula 1.

[0169] The reaction between the compound of the formula (V) and the compound of the formula 1 is usually carried out by employing 0.5 to excess moles, preferably equivalent to 1.5 moles of the compound of the formula 1, based on 1 mole of the compound (V).

[0170] The reaction is usually carried out in an inert solvent, and the preferable examples of such inert solvent are methylene chloride, chloroform, tetrahydrofuran, ethyl ether, benzene, toluene, dimethylformamide, etc., or a mixture thereof and the like.

[0171] The above reaction is preferably carried out in the presence of a base, and examples of such base are organic bases (e.g. triethylamine, diisopropylethylamine, pyridine, 4-dimethylaminopyridine) or inorganic bases (e.g. sodium hydroxide, potassium hydroxide, sodium carbonate, potassium carbonate, sodium hydrogen carbonate).

[0172] The preferable amount of said base is usually equivalent to excess moles based on 1 mole of a compound of the formula (V). Also, when the base is a liquid, such base can also be used as a solvent.

[0173] The reaction temperature is usually from -78°C to 100°C, preferably from -20°C to 50°C.

[0174] The reaction time is usually from 5 minutes to 7 days, preferably from 30 minutes to 24 hours.

[0175] A compound of the formula 1 is commercially available, or can be prepared according to the known methods or the methods in Examples, or analogous methods thereto, optionally in combination.

[0176] The utility of compounds of the present invention as a medicament is proved by showing NPY antagonistic activities in the following pharmacological test.

Pharmacological Test (NPY binding inhibition test)

[0177] A sequence coding for human NPY Y5 receptor (c.f. International patent publication number WO96/16542) was cloned into expression vectors pcDNA3 , pRc/RSV (made by Invitrogen Inc.) and pCI-neo (made by Promega Inc.). The expression vectors thus obtained were transfected to host cells COS-7, CHO and LM(tk-) (American Type Culture Collection) by cationic lipid method (Proceedings of the National Academy of Sciences of the United States of America, vol.84: p.7413(1987)) to give NPY Y5 receptor expression cells.

[0178] A membrane sample prepared from the cells which expressed NPY Y5 receptor was incubated together with a test compound and [^{125}I]peptideYY (made by NEN) (20,000cpm) in an assay buffer (25 mM Tris buffer, pH7.4, containing 10 mM magnesium chloride, 1 mM phenylmethylsulfonyl fluoride, 0.1% bacitracin and 0.5% bovine serum albumin) at 25° C for 2 hours, then filtered through a glass filter GF/C and washed with 5 mM Tris buffer (pH7.4) containing 0.3% BSA. The radioactivity of the cake on the glass filter was measured. Non-specific binding was measured in the presence of 1 μM peptide YY, and 50% Inhibitory Concentration (IC_{50}) of the test compound against specific peptideYY binding was determined (Endocrinology, vol.131: p.2090(1992)). The results are shown in Table 1.

Table 1:

NPY receptors binding inhibition	
compounds	IC_{50} (nM)
Example 1	2.5
Example 5	1.7
Example 27	3.6
Example 32	1.7
Example 36	0.80
Example 41	1.2
Example 45	0.69
Example 46	2.0

[0179] As shown above, the compounds of this invention potently inhibited peptideYY (NPY analogue) binding to NPY Y5 receptors.

[0180] The compounds of the formula (I) can be administered orally orparenterallyand, byformulatingintoasuitableadministrable form, may be administered as a therapeutic agent for various diseases related to NPY, for example, cardiovascular disorders such as hypertension, nephropathy, heart disease, vasospasm, arteriosclerosis, etc., central nervous system disorders such as bulimia, depression, anxiety, seizure, epilepsy, dementia, pain, alcoholism, drug withdrawal, circadian rhythm disorders, schizophrenia, etc., metabolic diseases such as obesity, diabetes, hormone abnormality, hypercholesterolemia, hyperlipidemia, etc., sexual and reproductive dysfunctions, gastro-intestinal disorders such as gastro-intestinal motility disorder, respiratory disorders, inflammatory diseases or glaucoma, and the like, particularly preferably bulimia, obesity, diabetes, and the like. In clinical use, the compounds of this invention may be administered after being formulated, together with pharmaceutically acceptable additives, into an appropriate preparation according to the mode of administration. As for such additives, those which are usually used in the field of pharmaceutical formulation, for example, gelatin, lactose, sucrose, titanium oxide, starch, crystalline cellulose, hydroxypropyl methylcellulose, carboxymethylcellulose, corn starch, microcrystalline wax, white petrolatum, magnesium methasilicate aluminate, anhydrous calcium phosphate, citric acid, trisodium citrate, hydroxypropyl cellulose, sorbitol, sorbitan fatty acid ester, polysorbate, sucrose fatty acid ester, polyoxyethylene, hydrogenated castor oil, polyvinylpyrrolidone, magnesium stearate, light silicic anhydride, talc, vegetable oil, benzyl alcohol, gum arabic, propylene glycol, polyalkylene glycol, cyclodextrin or hydroxypropyl cyclodextrin, etc. may be used.

[0181] The formulations prepared by mixing the compound of the present invention with said additives include, for example , solid preparations (e.g. tablets, capsules, granules, powder, suppositories); or liquid preparations (e.g. syrups, elixirs, injections). Such preparations may be formulated according to the techniques well-known in the art of pharmaceutical formulation. Liquid preparations may be in the form of preparations which are dissolved or suspended in water or other appropriate media when used. In the case of injectable preparations in particular, they may be dissolved or suspended in physiological saline or glucose solution if necessary, optionally together with a buffer or a preservative.

[0182] All the said preparations may contain 1.0 to 100 wt.%, preferably 1.0 to 60 wt.% of compounds of the present invention and may also contain other therapeutically effective compounds.

[0183] The compounds of the present invention can be used in combination with other agents useful for treating metabolic disorders and/or eating disorders. The individual component of such combinations can be administered separately at different times or concurrently in divided or single combination forms during the course of therapy. The present invention is therefore to be understood as embracing all such regimes of simultaneous or divided administration and the term "administration" is to be interpreted accordingly. The scope of combinations of the compounds of this invention with other agents useful for treating metabolic disorders and/or eating disorders includes in principle any combination of any pharmaceutical composition useful for treating metabolic disorders and/or eating disorders.

[0184] When compounds of the present invention are used clinically, for example, a daily dose for an adult is 0.01 to 100 mg/kg, preferably 0.03 to 3 mg/kg with simultaneous or divided administration when administered orally, and 0.001 to 10 mg/kg, preferably 0.001 to 0.1 mg/kg with simultaneous or divided administration when administered parenterally, though the dose and the frequency of administration may vary depending upon the sex, age, body weight, degree of symptoms, and type and range of the desired treatment effects.

[0185] An ordinarily skilled physician, veterinarian or clinician can readily determine and prescribe the effective amount of the drug required to prevent, suppress or arrest the progress of diseases.

Best mode for carrying out the invention

[0186] The present invention is further described in detail with reference to the following Examples, but the invention should in no way be restricted thereby.

Example 1

Preparation of trans-3'-oxo-N-(trans-4-phenylcyclohexyl)-spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0187] 4-Phenylcyclohexylamine hydrochloride (64 mg) and 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride (115 mg) were added to a solution of trans-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxylic acid (74 mg) in pyridine (2 mL). The mixture was stirred at room temperature for 24 hours and the reaction mixture was partitioned between water and ethyl acetate. The organic layer was dried over magnesium sulfate and the solvent was removed by evaporation. The residue was purified by preparative thin-layer chromatography (hexane/ethyl acetate = 1/1) to give the title compound (50.7 mg) as a white solid.
^{1}H-NMR (300MHz, $CDCl_3$, δppm) : 1. 72-1 .89 (2H, m), 1.56-1.82 (4H, m), 1.92-2.20 (8H, m), 2.28-2.40 (2H, m), 2.45-2.58 (2H, m), 3.82-3.96 (1H, m), 5.44 (1H, br d), 7.17-7.33 (5H, m), 7.52 (1H, d, J=7.8Hz), 7.58-7.69 (2H, m), 7.88 (1H, d, J=7.5Hz).

[0188] Compounds of Examples 2 to 76 were obtained by following the same procedure as in Example 1, except that trans-3'-oxospiro[cyclohexan-1,1'(3'H)-isobenzofuran]-4-carboxylic acid and 4-phenylcyclohexylamine hydrochloride used in Example 1 were replaced with the corresponding starting materials of each desired compound.

Example 2

Trans-N-[(3S)-1-(2-fluorophenyl)-3-pyrrolidinyl]-3'-oxospiro(cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0189] ^{1}H-NMR(300MHz,DMSO-d_6,δppm):1.69-1.77(2H,m),1.83-2.18(8H,m), 2.47-2.53(1H,m),3.17-3.23(1H,m), 3.28-3.34(1H,m),3.43-3.47 (1H,m),3.55-3.62(1H,m),4.35-4.38(1H,m),6.65-6.76(2H,m),6.97 - 7.08(2H,m),7.58-7.64 (2H,m),7.77(1H,d,J=7.3Hz),7.83(1H,d,J= 7.6Hz),8.17(1H,d,J=6.9Hz).

Example 3

Trans-N-[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0190] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.74-1.80(2H,m),2.00-2.15(5H,m), 2.23-2.38(3H,m),2.48-2.52(1H,m),3.20 (1H,dd,J=9.9,3.6Hz), 3.35-3.47(2H,m),3.59-3.65(1H,m),4.66-4.68(1H,m),5.73-5.77 (1H,m),6.23-6.45(3H,m),7.17(1H, dt,J=8.2,6.9Hz),7.49-7.58 (2H,m),7.63-7.69(1H,m),7.87(1H,dd,J=7.6,0.8Hz).

Example 4

Trans-N-[(3S)-1-(4-fluorophenyl)-3-pyrrolidinyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0191] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.74-1.82(2H,m),1.99-2.39(8H,m), 2.48-2.52(1H,m),3.19(1H,dd, J=9.9,3.3Hz),3.26-3.34(1H,m), 3.41-3.48(1H,m),3.56(1H,dd,J=9.9,5.9Hz),4.65-4.72(1H,m), 5.77-5.80(1H,m), 6.48-6.54(2H,m),6.93-7.00(2H,m),7.49-7.58 (2H,m),7.62-7.68(1H,m),7.88(1H,dd,J=7.6,0.9Hz).

Example 5

Trans-N-[1-(2-fluorophenyl)-4-piperidyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0192] ^{1}H-NMR(300MHz,CD_3OD,δppm):1.80-1.92(2H,m),1.99-2.37(10H,m), 2.60-2.70(1H,m),3.71-3.89(4H,m), 4.04-4.20(1H,m),7.37-7.50 (2H,m),7.52-7.64(2H,m),7.69-7.89(4H,m).

Example 6

Trans-N-[1-(3-fluorophenyl)-4-piperidyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0193] ^{1}H-NMR(300MHz,CD_3OD,δppm):1.78-1.92(2H,m),1.98-2.38(10H,m), 2.59-2.69(1H,m),3.67-3.88(4H,m),

4.07-4.20(1H,m),7.28(1H,dt, J=7.6,1.5Hz),7.43-7.68(4H,m),7.70-7.79(2H,m),7.84(1H,d,J= 7.6Hz).

Example 7

Trans-N-[1-(4-fluorophenyl)-4-piperidyl)-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0194] ^{1}H-NMR(300MHz,CD_3OD,δppm):1.77-1.93(2H,m),1.98-2.41(10H,m), 2.60-2.71(1H,m),3.70-3.91(4H,m), 4.11-4.26(1H,m),7.30-7.43 (2H,m),7.55-7.66(1H,m),7.71-7.81(2H,m),7.81-7.94(3H,m).

Example 8

Trans-3'-oxo-N-(1,2,3,4-tetrahydro-2-naphthyl)spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0195] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.70-1.91(3H,m),1.96-2.19(5H,m), 2.19-2.39(2H,m),2.49(1H,q,J=5.0Hz), 2.73(1H,dd,J=16.3,7.9 Hz),2.79-3.03(2H,m),3.15(1H,dd,J=16.3,5.0Hz),4.37-4.42(1H,m),5.62(1H,br d,J=7.6Hz), 6.99-7.21(4H,m),7.46-7.70(3H,m), 7.86(1H,dd,J=7.6,1.0Hz).

Example 9

Trans-N-[1-(3-fluorophenyl)-4-piperidyl]-3-oxospiro[4-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0196] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.61(2H,dq,J=11.6,4.0Hz),1.70-1.95(2H,m),1.95-2.23(6H,m),2.23-2.45(2H, m),2.53(1H,quintet,J= 5.1Hz),2.81-3.03(2H,m),3.65(2H,brd,J=12.9Hz),3.90-4.07(1H, m),5.72(1H,brd,J=7.7Hz),6.52 (1H,dt,J=8.2,2.3Hz),6.58(1H,dt, J=12.3,2.3Hz),6.69(1H,dt,J=8.3,2.3Hz),7.17(1H,q,J=7.9Hz), 7.56(1H,dd,J=7.3, 4.6Hz),8.03(1H,d,J=7.9Hz),8.89(1H,d,J=4.6 Hz).

Example 10

Trans-N-[1-(3-fluorophenyl)-4-piperidyl]-3-oxospiro[5-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0197] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.59(2H,dq,J=11.5,4.0Hz),1.70-2.60(8H,m),2.80-3.03(2H,m),3.55-3.79(2H, m),3.90-4.09(1H,m), 5.63(1H,brd,J=7.9Hz),6.30-6.81(3H,m),7.10-7.24(1H,m),7.59 (1H,dd,J=5.2,1.2Hz),8.84(1H,d, J=5.2Hz),9.14(1H,s).

Example 11

Trans-N-[1-(3-fluorophenyl)-4-piperidyl)-3-oxaspiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0198] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.50-1.70(2H,m),1.70-1.96(2H,m), 1.96-2.27(6H,m), 2.27-2.61(3H,m), 2.82-3.02(2H,m), 3.57-3.78 (2H,m), 3.94-4.09(1H,m), 5.64(1H,br d,J=7.9Hz), 6.44-6.78 (3H, m), 7.10-7.23(1H,m), 7.77 (1H,dd,J=5.0,1.1Hz), 8.86(1H,d,J= 5.0Hz), 9.04(1H,d,J=1.1Hz).

Example 12

Trans-N-[1-(3-fluorophenyl)-4-piperidyl]-3-oxospiro[7-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0199] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.49-1.69(2H,m),1.80-2.53(11H,m), 2.82-3.03(2H,m),3.53-3.78(2H,m), 3.95-4.17(1H,m),5.70(1H,br d,J=7.6Hz),6.43-6.76(3H,m),7.11-7.24(1H,m),7.49(1H,dd,J= 7.8,4.9Hz),8.15(1H,dd,J= 7.8,1.6Hz),8.84(1H,dd,J=4.9,1.6Hz).

Example 13

Trans-N-(6-methoxy-1,2,3,4-tetrahydro-2-naphthyl)-3-oxospiro[5-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0200] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.71-1.95(3H,m), 1.95-2.23(5H,m), 2.23-2.42(2H,m), 2.50(1H,q,J=5.0Hz), 2.66(1H,dd,J=16.0, 7.8 Hz), 2.77-3.01(2H,m), 3.07(1H,dd,J=16.0,5.0Hz), 3.77(3H,s), 4.24-4.42(1H,m), 5.96(1H,br d, J=7.7Hz), 6.65(1H,d,J=2.5Hz), 6.72 (1H,dd, J=8.4,2.5Hz), 6.97(1H,d,J=8.5Hz), 7.61(1H,d, J= 5.0Hz), 8.83(1H,d,

J=5.0Hz), 9.12(1H,s).

Example 14

Trans-3'-oxo-N-[(3S)-5-oxo-1-phenyl-3-pyrrolidinyl]spiro(cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0201] ^{1}H-NMR(300MHz,DMSO-d_6,δppm):1.68-1.76(2H,m),1.86-2.11(6H, m),2.40-2.54(2H,m),2.92(1H,dd,J=17.1, 8.2Hz),3.60-3.67(1H, m),4.16(1H,dd,J=10.2,7.0Hz),4.46-4.51(1H,m),7.10-7.16(3H, m),7.33-7.40(2H,m),7.57-7.67 (4H,m),7.74-7.84(2H,m),8.46(1H, d,J=6.7Hz).

Example 15

Trans-N-[(3S)-1-(2-fluorophenyl)-3-pyrrolidinyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0202] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.80-2.00(3H,m),2.00-2.20(4H,m), 2.30-2.40(3H,m),2.52(1H,quintet,J= 5.2Hz),3.30-3.40(2H,m), 3.50-3.70(2H,m),4.60-4.70(1H,m),5.94(1H,d,J=7.7Hz),6.65-6.80(2H,m),6.95-7.10(2H,m), 7.70-7.80(1H,m),8.86(1H,d,J=4.9 Hz),9.04(1H,s).

Example 16

Trans-N-[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0203] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.75-1.90(2H,m),2.00-2.20(5H,m), 2.30-2.40(3H,m),2.51(1H,quintet,J= 4.9Hz),3.20(1H,dd,J=10.2, 3.4Hz),3.30-3.50(2H,m),3.61(1H,dd,J=10.0,6.0Hz),4.60-4.70 (1H,m),5.93(1H,d,J=7.2Hz), 6.25(1H,dt,J=12.1,2.3Hz),6.30-6.3 6(1H,m),6.36-6.45(1H,m),7.15(1H,dt,J=8.2,6.9Hz),7.70-7.80 (1H,m),8.80-8.90 (1H,m),9.04(1H,s).

Example 17

Trans-3-oxo-N-(trans-4-phenylcyclohexyl)spiro[5-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0204] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.18-1.93(2H,m),1.49-1.74(2H,m), 1.72-1.88(2H,m),1.91-2.22(8H,m),2.27-2.42(2H,m),2.45-2.59 (2H,m),3.79-3.97(1H,m),5.33-5.48(1H,m),7.12-7.35(5H,m),7.58 (1H,d,J=5.4Hz),8.84(1H,d, J=5.4Hz),9.15(1H,s).

Example 18

Trans-3-oxo-N-(trans-4-phenylcyclohexyl)spiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0205] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.15-1.41(2H,m),1.43-1.84(2H,m), 1.86-2.24(10H,m),2.28-2.60(4H,m), 3.78-4.00(1H,m),5.29-5.50 (1H,m),7.08-7.37(5H,m),7.76(1H,dd,J=4.8,1.2Hz),8.86(1H,d,J= 4.8Hz),9.04(1H,d,J= 1.2Hz).

Example 19

Trans-3-oxo-N-(trans-4-phenylcyclohexyl)spiro[7-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0206] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.18-1.43(2H,m),1.43-1.77(2H,m), 1.77-2.62(14H,m),3.80-4.00(1H,m), 5.34-5.51(1H,m),7.09-7.48 (5H,m),7.46(1H,dd,J=7.8,4.8Hz),8.17(1H,dd,J=7.8,1.5Hz),8.84 (1H,dd,J=4.8,1.5Hz).

Example 20

Trans-3-oxo-N-[(3S)-1-phenyl-3-pyrrolidinyl]spiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0207] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.75-1.88(2H,m),1.95-2.20(6H,m), 2.30-2.54(4H,m),3.20-3.62(4H,m),4.62-4.72(1H,m),5.70-5.80 (1H,m),6.60(2H,d,J=8.7Hz),6.74(1H,t,J=7.4Hz),7.20-7.32(2H, m),7.76(1H,d,J=5.0Hz),8.87(1H,

d,J=5.0Hz),9.04(1H,s).

Example 21

Trans-3-oxo-N-[(3S)-1-(3-trifluoromethylphenyl)-3-pyrrolidinyl)spiro(6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0208] ^{1}H-NMR(200MHz,$CDCl_3$,δppm):1.75-2.57(11H,m),3.18-3.71(4H,m), 4.62-4.78(1H,m),5.68-5.80(1H,m), 6.68-6.80(2H,m),6.90-7.00 (1H,m),7.25-7.38(1H,m),7.76(1H,d,J=5.0Hz),8.87(1H,d,J=5.0 Hz),9.04(1H,s).

Example 22

Trans-3-oxo-N-[(3S)-1-(2-pyridyl)-3-pyrrolidinyl]spiro[5-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0209] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.70-1.90(2H,m),2.00-2.20(5H,m), 2.20-2.40(3H,m),2.51(1H,quintet,J= 4.9Hz),3.00-3.10(2H,m), 3.42(1H,dd,J=10.9,3.6Hz),3.77(1H,dd,J=10.9,5.9Hz),4.60-4.70 (1H,m),5.83(1H,d,J=7.3Hz), 6.38(1H,d,J=8.6Hz),6.55-6.65(1H, m),7.64(1H,ddd,J=9.0,7.0,2.0Hz),7.56(1H,dd,J=5.4,1.6Hz), 8.10-8.20(1H,m),8.84 (1H,d,J=5.4Hz),9.14(1H,s).

Example 23

Trans-3-oxo-N-[(3S)-1-(3-pyridyl)-3-pyrrolidinyl]spiro[5-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0210] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.70-1.90(2H,m),2.00-2.20(5H,m), 2.25-2.45(3H,m),2.54(1H,quintet,J= 5.3Hz),3.23(1H,dd,J=9.9, 3.0Hz),3.30-3.50(2H,m),3.63(1H,dd,J=9.7,5.9Hz),4.60-4.70 (1H,m),6.17(1H,d,J=7.2Hz), 6.70-6.90(1H,m),7.00-7.20(1H,m), 7.57(1H,dd,J=5.3,0.9Hz),7.90-8.00(2H,m),8.85(1H,d,J=5.3Hz), 9.15(1H,s).

Example 24

Trans-N-[trans-4-(4-fluorophenyl)cyclohexyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0211] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.13-1.41(2H,m),1.41-1.68(2H,m), 1.72-2.26(10H,m),2.26-2.60(4H,m), 3.78-4.00(1H,m),5.32-5.51 (1H,m),6.81-7.07(2H,m),7.07-7.37(2H,m),7.76(1H,dd,J=5.4,1.2 Hz),8.86(1H,d,J=5.4Hz), 9.04(1H,d,J=1.2Hz).

Example 25

Trans-N-[trans-4-(3-fluorophenyl)cyclohexyl]-3-oxospiro[6-azaisobenzofuran-1(3N),1'-cyclohexane]-4'-carboxamide

[0212] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.19-1.41(2H,m),1.49-1.73(2H,m), 1.73-2.27(10H,m),2.39-2.70(4H,m), 3.79-4.00(1H,m),5.32-5.48 (1H,m),6.82-7.03(3H,m),7.19-7.34(1H,m),7.76(1H,dd,J=4.8,0.9 Hz),8.86(1H,d,J=4.8Hz), 9.04(1H,d,J=0.9Hz).

Example 26

Trans-N-[trans-4-(3-fluorophenyl)cyclohexyl]-3-oxospiro[4-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0213] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.19-1.41(2H,m),1.49-1.73(2H,m), 1.73-2.25(10H,m),2.25-2.42(2H,m), 2.42-2.60(2H,m),3.77-3.96 (1H,m),5.36-5.56(1H,m),6.82-7.03(1H,m),7.19-7.34(1H,m),7.54 (1H,dd,J=7.8,4.5Hz),8.03 (1H,d,J=7.8Hz),8.88(1H,d,J=4.5Hz).

Example 27

Trans-N-[trans-4-(3-fluorophenyl)cyclohexyl]-3-oxospiro[7-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0214] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.19-1.41(2H,m),1.49-1.76(2H,m), 1.78-2.60(14H,m),3.80-4.00(1H,m), 5.35-5.53(1H,m),6.82-7.03 (3H,m),7.18-7.35(1H,m),7.46(1H,dd,J=7.8,4.8Hz),8.17(1H,dd, J=7.8,1.5Hz),8.84(1H,dd, J=4.8,1.5Hz).

Example 28

Trans-N-[(3S)-1-(3,5-difluorophenyl)-3-pyrrolidinyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0215] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.80-1.90(2H,m),1.95-2.20(5H,m), 2.30-2.45(3H,m),2.53(1H,quintet,J=4.6Hz),3.10-3.20(1H,m), 3.30-3.50(2H,m),3.60-3.70(1H,m),4.60-4.70(1H,m),5.60-5.70 (1H,m),6.50-6.60(2H,m), 6.60-6.70(1H,m),7.76(1H,d,J=4.9Hz), 8.87(1H,d,J=4.9Hz),9.03(1H,s).

Example 29

Trans-N-[1-(3,5-difluorophenyl)-4-piperidyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0216] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.45-1.61(2H,m),1.78-1.90(2H,m), 2.00-2.21(6H,m),2.31-2.45(2H,m), 2.45-2.55(1H,m),2.88-3.00 (2H,m),3.60-3.71(2H,m),3.95-4.10(1H,m),5.48(1H,br d,J=7.5 Hz),6.18-6.29(1H,m), 6.29-6.43(2H,m),7.77(1H,dd,J=5.0,1.1 Hz),8.86(1H,d,J=5.0Hz),9.03(1H,d,J=1.1Hz).

Example 30

Trans-N-[3-(3-fluorophenyl)-tetrahydropyran-6-yl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0217] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.43-2.10(13H,m),3.24(1H.t,J=10.5 Hz),4.02-4.20(1H,m),4.24(1H,d,J=10.5Hz),4.32(1H,d,J=10.5 Hz),5.20-5.40(1H,m),6.88-7.03(1H,m),7.03-7.16(2H,m),7.20-7.39(1H,m),7.76(1H,dd,J=5.1,1.2Hz),8.87(1H,d,J=5.1Hz),9.04 (1H,d.J=1.2Hz).

Example 31

Trans-N-[trans-4-(2-fluorophenyl)cyclohexyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0218] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.22-1.46(2H,m),1.52-2.28(12H,m), 2.28-2.60(3H,m),2.76-2.97(1H,m), 3.80-4.00(1H,m),5.35-5.53 (1H,m),6.92-7.41(4H,m),7.76(1H,dd,J=4.8,1.2Hz),8.86(1H,d,J=4.8Hz),9.04(1H,d,J=1.2Hz).

Example 32

Trans-N-[(S)-1-benzyl-2-(benzylamino)ethyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4'-carboxamide

[0219] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.50-1.74(2H.m),1.60-2.10(5H,m), 2.16-2.27(1H,m),2.39-2.47(1H,m),2.68-2.75(2H,m),2.86(2H,d, J=6.6Hz),3.79(2H,s),4.28-4.39(1H,m),5.85(1H,d,J=8.4Hz),7.13 - 7.37(10H,m),7.46(1H,d, J=8.1Hz),7.51(1H,d,J=7.8Hz),7.63(1H, t,J=7.8Hz),7.86(1H,d,J=7.8Hz).

Example 33

Trans-N-benzhydryl-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran)-4-carboxamide

[0220] ^{1}H-NMR(200MHz,$CDCl_3$,δppm):1.70-1.80(2H,m),2.10-2.40(6H,m), 2.64(1H,quintet,J=4.9Hz),6.16(1H,d, J=7.6Hz),6.28(1H,d,J=7.6 Hz),7.20-7.40(10H,m),7.45-7.55(2H,m),7.60-7.70(1H,m),7.80-7.90(1H,m).

Example 34

Trans-1-methanesulfonyl-N-(1-phenyl-4-piperidyl)spiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0221] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.50-1.70(4H,m),1.71-1.83(2H,m), 1.95-2.15(6H,m),2.30-2.40(1H,m),2.82-2.96(2H,m),2.89(3H,s), 3.60-3.68(2H,br d,J=12.9Hz),3.72(2H,s),3.92-4.08 (1H,m), 5.47(1H,d,J=7.7Hz),6.85(1H,t, J=7.3Hz),6.94(2H,d,J=8.5Hz), 7.05(1H,t,J=7.3Hz),7.18-7.30(3H,m),7.40(2H,t,J=7.3Hz).

Example 35

Trans-N-(2-indanyl)-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0222] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.50-1.63(2H,m),1.68-1.80(2H,m), 1.99-2.11(4H,m),2.23-2.32(1H,m),2.81 (2H,dd,J=16.2,4.2Hz), 2.88(3H,s),3.36(2H,dd,J=16.2,7.2Hz),3.70(2H,s),4.72-4.85 (1H,m),5.68-5.77(1H,m),7.05(1H,t, J=7.2Hz),7.18-7.30(5H,m), 7.34-7.45(2H,m).

Example 36

Trans-N-[1-(3-fluorophenyl)-4-piperidyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0223] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.46-1.68(4H,m),1.70-1.84(2H,m), 2.00-2.13(6H,m),2.30-2.40(1H,m),2.89 (3H,s),2.86-2.98(2H,m), 3.61-3.71(2H,m),3.72(2H,s),3.95-4.05(1H,m),5.43(1H,d,J=7.7 Hz),6.49(1H,dt,J=8.2,2.3Hz), 6.60(1H,dt,J=12.4,2.3Hz),6.68 (1H,dd,J=8.2,2.3Hz),7.05(1H,dt,J=7.6,1.1Hz),7.17(1H,t,J=7.6 Hz),7.22(1H,dt, J=7.6,1.3Hz),7.40(1H,dd,J=7.6,1.1Hz),7.42 (1H,dd,J=7.6,1.1Hz).

Example 37

Trans-1-methanesulfonyl-N-[1-(2-pyridyl)-4-piperidyl]spiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0224] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.38-1.54(2H,m),1.53-1.63(2H,m), 1.65-1.75(4H,m),2.00-2.12(6H,m),2.29-2.40(1H,m),2.88(3H,s), 3.02(2H,ddd,J=13.8,11.2,2.5Hz),3.72(2H,s),4.06(1H,m),4.25 (2H,m),5.44(1H,d,J=7.8Hz), 6.56-6.66(1H,m),6.68(1H,d,J=8.7 Hz),7.05(1H,dt,J=7.6,1.0Hz),7.22(1H,dt,J=7.6,1.2Hz),7.39 (1H,d,J=7.6Hz),7.42 (1H,dd,J=7.6,1.0Hz),7.47(1H,ddd,J=8.8,7. 1,2.0Hz),8.13-8.24(1H,m).

Example 38

Trans-1-methanesulfonyl-N-(1-phenyl-3-piperidyl)spiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0225] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.54-1.88(8H,m),2.00-2.19(4H,m), 2.33-2.42(1H,m),2.89(3H,s),2.96-3.05 (1H,m),3.13-3.43(3H,m), 3.68-3.75(2H,m),4.20-4.30(1H,m),6.03-6.10(1H,m),6.88(1H,t,J =7.2Hz),6.91-6.99(2H,m), 7.01-7.08(1H,m),7.19-7.30(3H,m), 7.37-7.43(2H,m).

Example 39

Trans-N-[1-(3,5-difluorophenyl)-3-piperidyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0226] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.53-1.90(8H,m),2.00-2.13(4H,m), 2.33-2.42(1H,m),2.88(3H,s),3.01-3.20 (3H,m),3.40-3.48(1H,m), 3.67-3.82(2H,m),4.10-4.21(1H,m),5.97-6.03(1H,m),6.19-6.28 (1H,m),6.35-6,45(2H,m),7.05 (1H,t,J=7.5Hz),7.22(1H,t,J=7.5 Hz),7.38(1H,d,J=7.8Hz),7.42(1H,d,J=7.8Hz).

Example 40

Trans-1-methanesulfonyl-N-[1-(2-pyridyl)-3-piperidyl]spiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0227] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.50-1.90(8H,m),1.95-2.32(4H,m), 2.31-2.40(1H,m),2.88(3H,s),3.43-3.50 (1H,m),3.70(2H,s),3.55-3.74(3H,m),4.08-4.16(1H,m),6.30(1H,d,J=7.6Hz),6.61(1H,dd,J=7.1,5.0Hz),6.73(1H,d,J= 8.6Hz),7.03(1H,dt,J=7.5,1.1Hz),7.21 (1H,dt,J=7.5,1.1Hz),7.38(2H,d,J=8.6Hz),7.47(1H,ddd,J=8.6,7. 1,2.0Hz),8.14 (1H,dd,J=5.0,2.0Hz).

Example 41

Trans-1-methanesulfonyl-N-[(3S)-1-phenyl-3-pyrrolidinyl]spiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0228] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.52-1.82(6H,m),1.96-2.13(3H,m), 2.28-2.40(2H,m),2.87(3H,m),3.22(1H, dd,J=9.9,3.3Hz),3.31-3.51(2H,m),3.59(1H,dd,J=9.9,5.7Hz),3.67-3.72(2H,m),4.61-4.71(1H,m),5.82-5.89(1H,m),6.60 (2H,d,J=7.8Hz),6.73(1H,t,J= 7.5Hz),7.04(1H,dd,J=7.5,1.2Hz),7.20-7.29(3H,m),7.40(2H,t,J= 8.4Hz).

Example 42

Trans-1-methanesulfonyl-N-[(3R)-1-phenyl-3-pyrrolidinyl]spiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0229] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.52-1.82(6H,m),1.96-2.13(3H,m), 2.28-2.40(2H,m),2.87(3H,m),3.22(1H, dd,J=9.9,3.3Hz),3.31-3.51(2H,m),3.59(1H,dd,J=9.9,5.7Hz),3.67-3.72(2H,m),4.61-4.71(1H,m),5.82-5.89(1H,m),6.60 (2H,d,J=7.8Hz),6.73(1H,t,J= 7.5Hz),7.04(1H,dd,J=7.5,1.2Hz),7.20-7.29(3H,m),7.40(2H,t,J= 8.4Hz).

Example 43

Trans-1-methanesulfonyl-N-(2-phenylcyclopropyl)spiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0230] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.10-1.30(2H,m),1.50-1.87(4H,m), 1.95-2.20(5H,m),2.30-2.38(1H,m),2.89 (3H,s),2.86-2.95(1H,m), 3.72(2H,s),5.75-5.84(1H,m),6.99-7.48(9H,m).

Example 44

Trans-1-methanesulfonyl-N-[2-(3-pyridyl)cyclopropyl]spiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0231] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.20-1.34(2H,m),1.52-1.89(4H,m), 2.00-2.20(5H,m),2.34-2.43(1H,m),2.89 (3H,s),2.87-2.94(1H,m), 3.72(2H,s),5.86-5.95(1H,m),7.05(1H,dt,J=7.5,1.1Hz),7.19-7.30(2H,m),7.37-7.47(2H,m),7.51 (1H,br d,J=7.9Hz), 8.45(1H,dd, J=4.7Hz,1.7Hz),8.50(1H,d,J=2.1Hz).

Example 45

Trans-N-[(S)-1-benzyl-2-(benzylamino)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0232] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.46-1.75(4H,m),1.82-2.05(4H,m), 2.25-2.34(1H,m),2.68-2.72(2H,m),2.88 (3H,s),2.80-2.90(2H,m), 3.70(2H,s),3.77(2H,s),4.25-4.36(1H,m),5.85(1H,d,J=7.5Hz), 7.03(1H,t,J=7.5Hz),7.15-7.32 (12H,m),7.38(1H,d,J=7.5Hz).

Example 46

Trans-N-[1-benzylcarbamoyl-2-(4-pyridyl)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0233] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.45-2.02(8H,m),2.30-2.40(1H,m), 2.88(3H,s),3.00-3.19(2H,m),3.68(2H,s), 4.28-4.43(2H,m),4.78 (1H,q,J=7.5Hz),6.40-6.52(2H,m),6.98-7.40(11H,m),8.46(2H,d,J =5.9Hz).

Example 47

Trans-N-[2-(4-fluorophenyl)-1-[(4-pyridylmethyl)carbamoyl]ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0234] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.45-2.10(8H,m),2.35-2.45(1H,m), 2.88(3H,s),3.00-3.18(2H,m),3.70(2H,s), 4.31(1H,dd,J=15.8,6.0 Hz),4.41(1H,dd,J=15.8,6.0Hz),4.76(1H,q,J=7.9Hz),6.42(1H,d,J =7.9Hz),6.79(1H,t,J=6.0Hz), 6.90-7.10(5H,m),7.11-7.32(4H,m), 7.38(1H,d,J=8.0Hz),8.47(2H,d,J=5.3Hz).

Example 48

Trans-N-(2-hydroxy-2-phenylethyl)-1-methanesulfonylspiro(indoline-3,1'-cyclohexane]-4'-carboxamide

[0235] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.50-1.63(2H,m),1.67-1.82(2H,m), 1.92-2.12(4H,m),2.33-2.42(1H,m),2.89 (3H,s),3.27-3.47(2H,m), 3.71(2H,s),3.72-3.82(1H,m),4.88-4.94(1H,m),5.91-6.02(1H,m), 7.05(1H,t,J=7.8Hz),7.19-7.41(8H,m).

Example 49

Trans-N-(benzoylmethyl)-1-methanesulfonylspiro[indoline-3,1'-cyclohexane)-4'-carboxamide

[0236] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.59-1.70(2H,m),1.80-1.91(2H,m), 2.02-2.21(4H,m),2.51-2.60(1H,m),2.90 (3H,s),3.76(2H,s),4.81 (2H,d,J=4.2Hz),6.60-6.70(1H,m),7.04(1H,t,J=7.5Hz),7.22(1H, t,J=7.5Hz),7.38-7.43(2H,m), 7.52(2H,t,J=7.5Hz),7.64(1H,t,J= 7.5Hz),8.00(2H,d,J=6.6Hz).

Example 50

Trans-N-[(S)-1-benzyl-2-(N-benzylmethylamino)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0237] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.50-1.78(4H,m),1.80-2.10(4H,m), 2.23(3H,s),2.28-2.46(3H,m),2.88(3H,s), 2.92(2H,d,J=6.6Hz), 3.46(1H,d,J=13.2Hz),3.53(1H,d,J=13.2Hz),3.71(2H,s),4.25-4.38(1H,m),5.62(1H,d,J=6.6Hz), 7.02(1H,t,J=7.5Hz),7.12-7.34 (12H,m),7.38(1H,d,J=7.5Hz).

Example 51

Trans-N-[(S)-1-(N-benzylmethylcarbamoyl)-2-phenylethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0238] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.45-2.10(8H,m),2.33-2.46(1H,m), 2.75(3H,s),2.88(3H,s),3.00-3.10(2H,m), 3.69(2H,s),4.46(1H,d, J=14.4Hz),4.63(1H,d,J=14.4Hz),5.20-5.35(1H,m),6.75(1H,d,J= 7.5Hz),7.00-7.36(13H,m),7.39 (1H,d,J=7.5Hz).

Example 52

Trans-N-[(S)-1-(N-benzylmethylcarbamoyl)-2-(3-pyridyl)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0239] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.45-2.08(8H,m),2.30-2.45(1H,m), 2.88(3H,s),2.97(3H,s),2.95-3.02(1H,m), 3.12(1H,dd,J=13.6,7.2 Hz),3.70(2H,s),4.45-4.62(2H,m),5.20-5.30(1H,m),6.60(1H,br s),7.00-7.48(11H,m),8.45(1H,d, J=1.8Hz),8.47(1H,dd,J=5.1,1.8 Hz).

Example 53

Trans-N-(4-dimethylaminophenethyl)-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0240] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.49-1.80(4H,m),1.94-2.09(4H,m), 2.22-2.33(1H,m),2.75(2H,t,J=6.6Hz), 2.88(3H,s),2.92(6H,s), 3.52(2H,dt,J=6.6,6.2Hz),3.70(2H,s),5.51(1H,t,J=6.2Hz),6.70 (2H,d,J=8.8Hz),7.04(1H,t,J= 8.1Hz),7.07(2H,d,3=8.8Hz),7.22 (1H,t,J=8.1Hz),7.39(2H,d,J=8.1Hz).

Example 54

Trans-1-methanesulfonyl-N-[2-(3-quinolyl)ethyl]spiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0241] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.49-1.79(4H,m),1.92-2.09(4H,m), 2.25-2.36(1H,m),2.88(3H,s),3.07(2H,t, J=6.6Hz),3.65(1H,dt,J= 6.7,6.6Hz),3.69(1H,dd,J=6.7,6.6Hz),3.69(2H,s),5.63(1H,t,J= 6.7Hz),7.02(1H,t,J=7.3Hz),7.22 (1H,t,J=7.3Hz),7.33(1H,d,J= 7.3Hz),7.38(1H,d,J=7.3Hz),7.54(1H,t,J=7.9Hz),7.69(1H,t,J= 7.9Hz),7.77(1H,d,J-7.9Hz), 7.99(1H,d,J=2.2Hz),8.08(1H,d,J= 7.9Hz),8.79(1H,d,J=2.2Hz).

Example 55

Trans-N-[2-(4-dimethylaminophenyl)-2-hydroxyethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0242] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.49-1.82(4H,m),1.98-2.12(4H,m), 2.32-2.42(1H,m),2.63-2.70(1H,m),2.89

(3H,s),2.94(6H,s),3.35-3.45(1H,m),3.71(2H,s),3.60-3.78(1H,m),4.72-4.80(1H,s),5.90-5.98(1H,m),6.65-6.75(2H,m), 7.00-7.09(1H,m),7.18-7.30(3H,m), 7.35-7.45(2H,m).

Example 56

Trans-N-[2-hydroxy-2-(3-quinolyl)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0243] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.50-1.82(4H,m),1.92-2.10(4H,m), 2.32-2.45(1H,m),2.88(3H,s),3.48-3.60 (2H,m),3.69(2H,s),3.82-3.95(1H,m),4.19-4.30(1H,m),5.12-5.20(1H,m),7.04(1H,t,J=7.8H z),7.23(1H,t,J=7.8Hz),7.33 (1H,d,J=7.8Hz),7.38(1H,d,J=7.8Hz) ,7.55(1H,t,J=7.8Hz),7.71(1H,t,J=7.8Hz),7.80(1H,d,J=7.8Hz), 8.10(1H,d,J=7.8Hz), 8.21(1H,d,J=2.4Hz),8.88(1H,d,J=2.4Hz).

Example 57

Trans-N-[2-(3,5-difluorophenyl)-2-hydroxyethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0244] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.51-2.32(4H,m),1.94-2.01(4H,m), 2.35-2.46(1H,s),2.89(3H,s),3.31-3.42 (1H,m),3.71(2H,s),3.70-3.82(1H,m),3.98(1H,d,J=4.3Hz),4.87-4.94(1H,m),5.98(1H,t, J=3.0Hz),6.68-6.76(1H,m),6.87-6.98(2H,m),7.06(1H,t,J=7.7Hz) ,7.23(1H,t,J=7.7Hz),7.32-7.41(2H,m).

Example 58

Trans-N-[(S)-1-benzyl-2-[(3-pyridylmethyl)amino]ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0245] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.45-1.75(4H,m),1.80-2.09(4H,m), 2.25-2.38(1H,m),2.70(2H,d,J=7.5Hz), 2.86(3H,s),2.84-2.90(2H, m),3.69(2H,s),3.78(2H,s),4.25-4.40(1H,m),5.70(1H,d,J=7.5Hz) ,7.03(1H,dd,J=7.5,2.4Hz), 7.12-7.40(9H,m),7.57-7.63(1H,m), 8.50(1H,dd,J=5.1,1.5Hz),8.55(1H,d,J=1.5Hz).

Example 59

Trans-N-[(S)-1-benzyl-2-[(2-pyridylmethyl)amino]ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0246] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.45-2.10(8H,m),2.30-2.40(1H,m), 2.66-2.76(2H,m),2.88(3H,s),2.80-2.99 (2H,m),3.70(2H,s),3.90 (2H,dd,J=14.4,5.7Hz),4.23-4.37(1H,m),6.14(1H,d,J=7.5Hz), 7.02(1H,t,J=7.5Hz),7.12-7.30 (9H,m),7.36(1H,t,J=7.5Hz),7.62 (1H,dt,J=7.5,2.1Hz),8.54(1H,dd,J=5.1,2.1Hz).

Example 60

Trans-N-[(S)-2-anilino-1-benzylethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0247] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.42-2.07(8H,m),2.24-2.33(1H,m), 2.87(3H,s),2.84-2.91(1H,m),3.00(1H,dd, J=14.1,6.3Hz),3.20 (1H,dd,J=12.4,7.5Hz),3.33(1H,dd,J=12.4,4.5Hz),3.67(2H,s), 4.47-4.58(1H,m),5.49(1H,d, J=7.5Hz),6.60(1H,d,J=7.5Hz),6.70 (1H,t,J=7.5Hz),7.00(1H,t,J=7.5Hz),7.12-7.40(10H,m).

Example 61

Trans-N-[(S)-1-benzyl-2-(isobutylamino)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0248] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):0.89(6H,d,J=6.3Hz),1.45-2.10(9H, m),2.30-2.40(1H,m),2.43(2H,d,J=6.3Hz), 2.65-2.78(2H,m),2.88 (3H,s),2.80-2.93(2H,m),3.70(2H,s),4.22-4.35(1H,m),6.02(1H, d,J=7.5Hz),7.15-7.40(9H,m).

Example 62

Trans-1-methanesulfonyl-N-[2-phenyl-1-(methoxycarbonyl)ethyl]spiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0249] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.49-1.60(2H,m),1.63-1.78(2H,m), 1.87-2.10(4H,m),2.33-2.41(1H,m),2.88

(3H,s),3.10(1H,dd,J= 14.1,6.3Hz),3.22(1H,dd,J=14.1,5.7Hz),3.71(2H,s),3.77(3H,s), 4.91-4.97(1H,m),5.95(1H,br d, J=7.8Hz), 7.04(1H,t,J=6.9Hz), 7.11 (2H,d,J=6.3Hz),7.19-7.40(6H,m).

Example 63

Trans-N-(1-hydroxymethyl-2-phenylethyl)-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide

[0250] ^{1}H-NMR(200MHz,$CDCl_3$,δppm):1.43-2.11(7H,m),2.29-2.40(1H,m), 2.52-2.67(1H,m),2.79-3.02(2H,m),2.88 (3H,s),3.59-3.81(2H,m), 3.69(2H,s),4.18-4.35(1H,m),5.69-5.81(1H,m),7.04(1H,dt,J= 7.6,1.2Hz),7.18-7.41(8H,m).

Example 64

Trans-N-[1-(3-trifluoromethylphenyl)-4-piperidyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0251] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.56-1.65(2H,m),1.80-1.88(2H,m), 2.04-2.21(6H,m),2.35-2.44(2H,m),2.50-2.53(1H,m),2.91-3.00 (2H,m),3.62-3.73(2H,m),4.00-4.16(1H,m),5.58-5.60(1H,m),7.06 - 7.13(3H,m),7.27-7.37(4H,m), 7.76(1H,d,J=3.7Hz),8.87(1H,d,J= 4.9Hz),9.04(1H,s).

Example 65

Trans-N-[trans-2-(3-fluorophenyl)cyclopropyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0252] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.18-1.31(2H,m),1.70-1.82(2H,m), 2.00-2.21(5H,m),2.22-2.38(2H,m),2.46-2.56(1H,m),2.89-2.98 (1H,m),6.89(1H,br s), 6.83-6.91(2H,m),6.97(1H,d,J=7.2Hz), 7.19-7.29(1H,m),7.52(1H,t, J=7.2Hz),7.55-7.69(2H,m),7.87(1H, d,J=7.8Hz).

Example 66

Trans-N-[trans-2-(4-fluorophenyl)cyclopropyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0253] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.12-1.28(2H,m),1.71-1.82(2H,m), 1.99-2.20(5H,m),2.21-2.38(2H,m),2.46-2.54(1H,m),2.81-2.90 (1H,m),5.86(1H,br s), 6.98(2H,t,J=8.7Hz), 7.13-7.21(2H,m), 7.52(1H,t,J=7.2Hz), 7.58-7.70(2H, m), 7.88(1H,d,J=7.8Hz).

Example 67

Trans-N-[1-(2-fluorophenyl)-4-piperidyl]-3-oxospiro[6-azaisobenzofuran]-1(3H),1'-cyclohexane]-4'-carboxamide

[0254] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.56-1.74(2H,m),1.78-1.90(2H,m), 2.01-2.23(6H,m),2.32-2.48(2H,m),2.48-2.57(1H,m),2.77-2.90 (2H,m),3.38-3.50(2H,m),3.90-4.07(1H,m),5.51(1H,m),6.90-7.10 (4H,m),7.74(1H,d,J=5.0Hz), 8.87(1H,d,J=5.0Hz),9.05(1H,s).

Example 68

Trans-3'-oxo-N-[5-oxo-1-(2-fluorophenyl)-3-pyrrolidinyl]spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0255] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.68-1.81(2H,m),1.96-2.15(4H,m), 2.15-2.30(2H,m),2.43-2.54(2H,m),2.99 (1H,dd,J=17.4,7.6Hz), 3.73(1H,dd,J=10.6,2.4Hz),4.16(1H,dd,J=10.6,6.0Hz),4.65-4.76 (1H,m),6.80(1H,br s),7.09-7.21(2H,m),7.23-7.32(1H,m), 7.32-7.42(1H,m),7.47-7.57(2H,m),7.59-7.68(1H,m),7.88(1H,d,J=7.5 Hz).

Example 69

Trans-3'-oxo-N-[5-oxo-1-(3-fluorophenyl)-3-pyrrolidinyl]spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0256] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.71-1.94(2H,m),2.01-2.34(6H,m), 2.52-2.64(2H,m),2.98-3.11(1H,m),3.77 (1H,dd,J=10.5,2.9Hz), 4.23(1H,dd,J=10.5,6.4Hz),4.65-4.77(1H,m),6.78-7.13(2H,m), 7.17-7.33(2H,m),7.42-7.69(4H, m),7.80-7.88(1H,m).

Example 70

Trans-3-oxo-N-[5-oxo-1-(3-fluorophenyl)-3-pyrrolidinyl]spiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0257] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.76-1.91(2H,m),2.06-2.23(4H,m), 2.25-2.40(2H,m),2.50-2.62(2H,m),3.07 (1H,dd,J=17.6,8.1Hz), 3.77(1H,dd,J=10.7,2.4Hz),4.24(1H,dd,J=10.6,6.2Hz),4.67-4.79 (1H,m),6.79-6.92(2H,m), 7.16-7.35(2H,m),7.46-7.54(1H,m),7.75 (1H,d,J=5.0Hz),8.87(1H,d,3=5.0Hz),9.04(1H,s).

Example 71

Trans-N-[trans-4-(3-trifluoromethylphenyl)cyclohexyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0258] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.26-1.40(2H,m),1.59-1.72(2H,m), 1.80-1.88(2H,m),1.97-2.20(7H,m),2.36-2.63(4H,m),3.88-3.93 (1H,m),5.42(1H,d,J=8.4Hz),7.40-7.47(4H,m),7.76(1H,d,J=6.0 Hz),8.87(1H,d,J=4.9Hz),9.04 (1H,s).

Example 72

Trans-3'-oxo-N-[2-oxo-1-phenyl-4-piperidyl]spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0259] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.65-1.85(1H,m),1.95-2.20(5H,m), 2.20-2.40(3H,m),2.43-2.60(2H,m),2.92-3.00(1H,m),3.60-3.80 (2H,m),4.40-4.45(1H,m),5.68-5.70(1H,m),7.20-7.23(3H,m),7.38 - 7.42(2H,m),7.45-7.56(2H,m), 7.62-7.66(1H,m),7.86-7.87(1H, m).

Example 73

Trans-3'-oxo-N-[2-oxo-1-(3-fluorophenyl)-4-piperidyl]spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0260] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.60-1.90(1H,m),1.95-2.20(5H,m), 2.22-2.60(5H,m),2.96-3.00(1H,m),3.62-3.80(2H,m),4.38-4.50 (1H,m),5.70-5.80(1H,m),7.20-7.30(4H,m),7.40-7.42(2H,m),7.72 - 7.80(1H,m),8.84-8.85(1H,m), 9.01(1H,s).

Example 74

Trans-N-[trans-2-(2-fluorophenyl)cyclopropyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide

[0261] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.20-1.37(2H,m),1.70-1.82(2H,m), 2.01-2.38(7H,m),2.48-2.57(1H,m),3.00-3.09(1H,m),5.92(1H,br s),6.99-7.21(4H,m),7.51(1H,t,J=7.2Hz),7.56-7.69(2H,m),7.87 (1H,d,J=7.5Hz).

Example 75

Trans-N-[trans-2-(3-fluorophenyl)cyclopropyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0262] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.17-1.32(2H,m),1.75-1.89(2H,m), 2.00-2.25(5H,m),2.31-2.58(3H,m),2.89-2.99(1H,m),5.84(1H,br s),6.80-7.03(3H,m),7.20-7.32(1H,m),7.76((1H,dd,J=5.1,0.9 Hz),8.87(1H,d,J=5.1Hz),9.03(1H, d,J=0.9Hz).

Example 76

Trans-N-[trans-2-(4-fluorophenyl)cyclopropyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide

[0263] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.12-1.30(2H,m),1.78-1.90(2H,m), 2.01-2.22(5H,m),2.31-2.48(2H,m),2.48-2.57(1H,m),2.82-2.91 (1H,m),5.84(1H,br s),6.98(2H,t,J=8.7Hz),7.12-7.22(2H,m), 7.76(1H,dd,J=4.8,1.2Hz),8.87(1H,d, J=4.8Hz),9.04(1H,s).

Example 77

Preparation of 1-methanesulfonyl-N-(1-phenyl-4-piperidyl)spiro[indoline- 3,4'-piperidine]-1'-carboxamide

(1) Preparation of phenyl N-(1-phenyl-4-piperidyl)carbamate

[0264] Pyridine (24 μL) and phenyl chlorocarbonate (32 μL) were added to a solution of 1-phenyl-4-piperidylamine (35 mg) in tetrahydrofuran (1 mL), and the mixture was stirred at room temperature for 12 hours. The reaction mixture was poured into saturated aqueous sodium bicarbonate, and extracted with ethyl acetate. The organic layer was dried over anhydrous magnesium sulfate and concentrated. The residue was purified by column chromatography on silica gel (ethyl acetate/chloroform = 1/1) to give the title compound (37 mg).

(2) Preparation of 1-methanesulfonyl-N-(1-phenyl-4-piperidyl)spiro[indoline-3,4'-piperidine]-1'-carboxamide

[0265] 1-Methanesulfonyl-spiro[indoline-3,4'-piperidine] hydrochloride (37 mg) and triethylamine (170 μL) were added to a solution of phenyl N-(1-phenyl-4-piperidyl)carbamate (36 mg) in chloroform (3 mL), and the mixture was heated to reflux for 15 hours. The reaction mixture was poured into saturated aqueous sodium bicarbonate and extracted with ethyl acetate. The organic layer was dried over anhydrous magnesium sulfate and concentrated. The residue was crystallized from diethyl ether to give the title compound (18 mg) as a colorless crystal.
^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.49-2.13(12H,m),2.71-2.83(1H,m), 2.84-3.00(2H,m),2.92(3H,s),3.10-3.19(1H,m), 3.60-3.70(1H,m), 3.85(2H,s),3.90-4.01(1H,m),4.37(1H,d,J=7.8Hz),6.84(1H,t,J= 7.2Hz),6.94(1H,d,J=8.7Hz),7.07(1H, t,J=7.2Hz),7.11-7.29(5H, m),7.40(1H,d,J=8.4Hz).

[0266] Compounds of Examples 78 to 83 were obtained by following the same procedure as in Example 77-(2), except that phenyl N-(1-phenyl-4-piperidyl)carbamate and 1-methanesulfonylspiro[indoline-3,4'-piperidine) hydrochloride used in Example 77-(2) were replaced with the corresponding starting material of each desired compound.

Example 78

3-Oxo-N-(1-phenyl-3-piperidyl)spiro[isobenzofuran-1(3H),4'-piperidine]-1'-carboxamide

[0267] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.60-1.90(2H,m),2.04-2.18(2H,m), 2.53-2.60(1H,m),3.01-3.49(9H,m),3.92-4.20(3H,m),5.03(1H,d,J =7.8Hz),6.88(1H,t,J=7.5Hz),6.97(2H,d,J=7.5Hz),7.21-7.30(2H, m),7.35(1H,d,J=7.8Hz),7.54 (1H,t,J=7.5Hz),7.68(1H,t,J=7.5Hz) ,7.88(1H,d,J=7.5Hz).

Example 79

3-Oxo-N-[(3S)-1-phenyl-3-pyrrolidinyl]spiro[isobenzofuran-1(3H),4'-piperidine]-1'-carboxamide

[0268] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.98-2.20(3H,m),2.30-2.41(1H,m), 2.99-3.10(2H,m),3.22-3.40(4H,m),3.42-3.53(1H,m),3.59-3.65 (1H,m),3.96-4.11(2H,m),4.53-4.64(1H,m),4.68-4.77(1H,m),6.60 (2H,d,J=7.8Hz),6.72(1H,t, J=7.5Hz),7.25(2H,t,J=7.5H2),7.37 (1H,d,J=7.5Hz),7.55(1H,t,J=7.5Hz),7.69(1H,t,J=7.5Hz),7.89 (1H,d,J=7.8Hz).

Example 80

N-[1-Benzylcarbamoyl-2-cyclohexylethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide

[0269] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):0.88-1.03(2H,m),1.10-1.25(3H,m), 1.27-1.45(1H,m),1.50-1.86(8H,m),2.03-2.19(2H,m),3.05-3.19 (2H,m),3.66(2H,s),3.94-4.05(2H,m),4.34-4.43(2H,m),4.52(1H, dd,J=13.5,6.0Hz),5.10(1H,d, J=7.5Hz),6.60(2H,br s),7.15-7.37 (9H,m).

Example 81

N-[(S)-1-Benzyloxymethyl-2-cyclohexylethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide

[0270] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):0.80-1.32(7H,m),1.40-1.50(2H,m), 1.60-1.85(6H,m),2.03-2.20(2H,m),3.02-3.18(2H,m),3.47(1H,dd, J=9.7,3.3Hz),3.54(1H,dd,J=9.7,3.3Hz),3.66(2H,s),3.90-4.02 (2H,m),4.02-4.17(1H,m),4.49 (1H,d,J=12,2Hz),4.54(1H,d,J=12.2 Hz),4.70(1H,d,J=8.7Hz),6.64(1H,s),7.10-7.40(9H,m).

Example 82

N-[(S)-1-Benzylcarbamoyl-2-phenylethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide

[0271] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.70-1.80(2H,m),1.90-2.12(2H,m), 3.00-3.20(2H,m),3.64(2H,s),3.83-4.00 (2H,m),4.30(1H,dd,J= 15.0,5.7Hz),4.39(1H,dd,J=15.0,5.7Hz),4.58(1H,dd,J=14.5,7.5 Hz),5.37(1H,d,J=7.5Hz),6.31 (1H,brs),6.73(1H,br s),7.08(2H, dd,J=7.5,2.4Hz),7.13-7.37(12H,m).

Example 83

N-[(S)-1-Benzyl-2-(benzylamino)ethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide

[0272] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.60-1.85(2H,m),1.93-2.14(2H,m), 2.68(2H,d,J=5.4Hz),2.77(1H,dd,J=13.5, 7.5Hz),2.97(1H,dd,J= 13.5,5.4Hz),3.02-3.18(2H,m),3.65(2H,s),3.75(2H,s),3.82-4.04 (2H,m),4.07-4.20(1H,m),5.00 (1H,d,J=6.9Hz),6.79(1H,br s), 7.10-7.36(14H,m).

Example 84

Preparation of N-(2-indanyl)-1-methanesulfonylspiro[indoline- 3,4'-piperidine]-1'-carboxamide

[0273] 1-Methanesulfonylspiro[indoline-3,4'-piperidine] hydrochloride (60 mg) and 10M aqueous sodium hydroxide (33 μL) were added to a solution of phenyl N-(2-indanyl)carbamate (50 mg) in dimethyl sulfoxide (2 mL), and the mixture was stirred at room temperature for one hour. The reaction mixture was poured into water, and extracted with ethyl acetate. The organic layer was dried over anhydrous magnesium sulfate and concentrated. The residue was washed with ethyl acetate to give the title compound (65 mg) as a colorless crystal.
^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.72(2H,d,J=13.9Hz),1.83-1.95(2H, m),2.81-2.98(4H,m),2.91(3H,s),3.37(2H,dd, J=16.4,6.4Hz),3.84 (2H,s),3.95(2H,d,J=13.5Hz),4.69(2H,br s),7.06-7.28(7H,m), 7.40(1H,d,J=8.4Hz).

[0274] Compounds of Examples 85 to 88 were obtained by following the same procedure as in Example 84, except that phenyl N-(2-indanyl)carbamate and 1-methanesulfonylspiro[indoline-3,4'-piperidine] hydrochloride used in Example 84 were replaced with the corresponding starting materials of each desired compound.

Example 85

1-Methanesulfonyl-N-phenethylspiro[indoline-3,4'-piperidine]-1'-carboxamide

[0275] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.61-1.72(2H,m),1.79-1.89(2H,m), 2.83-2.96(4H,m),2.86(3H,s),3.83(2H,s), 3.85-3.94(2H,m),4.49 (1H,br s),7.04-7.41(9H,m).

Example 86

1-Methanesulfonyl-N-(3-phenylpropyl)spiro[indoline-3,4'-piperidine]-1'-carboxamide

[0276] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.70-1.77(2H,m),1.86-2.02(2H,m), 2.71(2H,t,J=7.4Hz),2.88-2.99(2H,m),2.92 (3H,s),3.33(2H,t,J= 7.0Hz),3.74-3.82(2H,m),3.84(2H,s),7.08(1H,t,J=7.4Hz),7.15-7.32(8H,m),7.40(1H,d,J=7.7Hz).

Example 87

1-Methanesulfonyl-N-(4-phenylbutyl)spiro[indoline-3,4'-piperidine]-1'-carboxamide

[0277] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.54-2.00(8H,m),2.66(2H,t,J=7.3 Hz),2.92(3H,s),2.93-3.04(2H,m),3.29(2H, t,J=7.0Hz),3.85(2H, s),3.86-3.94(2H,m),7.07-7.11(1H,m),7.15-7.31(8H,m),7.38-7.42(1H,m).

Example 88

N-(4-Bromophenethyl)-1-methanesulfonylspiro[indoline-3,4'-piperidine]-1'-carboxamide

[0278] ^{1}H-NMR(300MHz,DMSO-d_6,δppm):1.55-1.70(4H,m),2.73(2H,t,J=7.1 Hz),2.78-2.88(2H,m),3.04(3H,s),3.22-3.32(2H,m),3.87(2H,s), 3.91(2H,brd, J=13.2Hz), 7.06(1H,t,J=7.2Hz), 7.18-7.29(5H,m), 7.48(2H,d,J=8.2Hz).

Example 89

Preparation of N-(3,4-dimethoxyphenethyl)-1-methanesulfonylspiro[indoline-3,4'-piperidine]-1'-carboxamide

[0279] 2-(4-Formyl-3-methoxyphenoxy)ethyl polystyrene resin (500 mg), 1% acetic acid-dimethylformamide (10 mL), 2-(3,4-dimethoxyphenyl)ethylamine (236 μL) and sodium triacetoxyborohydride (590 mg) were successively added into a 75 mL-reservoir equipped with a frit. The mixture was stirred at room temperature overnight and then filtered. The remaining resin was washed successively with dimethylformamide, methanol and methylene chloride (10 mL each), and dried under reduced pressure to give 2-[4-[2-(3,4-dimethoxyphenyl)ethyl]aminomethyl-3-methoxyphenoxy] ethyl polystyrene resin. Then, the resin (50 mg) obtained above, methylene chloride (5 mL), triphosgene (22 mg) and triethylamine (38 μL) were added to a 15 mL-reservoir equipped with a frit. The mixture was stirred at room temperature for 6 hours and then filtered. The remaining resin was washed with methylene chloride, and methylene chloride (5 mL), 1-methanesulfonylspiro(indoline-3,4'-piperidine) hydrochloride (22 mg) and triethylamine (77 μL) were added thereto. The mixture was stirred at room temperature overnight and then filtered. The resin thus obtained was washed successively with dimethylformamide, methanol and methylene chloride (10 mL each), and stirred in 50% trifluoroacetic acid-methylene chloride solution for one hour to give a crude product. The product was purified by chromatography on silica gel to give the title compound (7 mg).
^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.65-1.75(2H,m),1.78-1.93(2H,m), 2.80(2H,t,J=6.9Hz),2.83-2.98(2H,m),2.92(3H,s), 3.50(1H,t,J= 6.5Hz),3.52(1H,t,J=6,5Hz),3.83(2H,s),3.86(3H,s),3.88(3H,s), 3.80-3.95(2H,m),4.51(1H,t),6.71-6.78(2H, m),6.79-6.84(1H,m), 7.03-7.15(2H,m),7.20-7.28(1H,m),7.40(1H,d,J=1.8Hz).

[0280] Compounds of Examples 90 to 95 were obtained by following the same procedure as in Example 89, except that 2-(3,4-dimethoxyphenyl)ethylamine and 1-methanesulfonylspiro[indoline-3,4'-pigeridine] hydrochloride used in Example 89 were replaced with the corresponding starting materials of each desired compound.

Example 90

1-Methanesulfonyl-N-(3-methoxyphenethyl) spiro[indoline-3,4'-piperidine]-1'-carboxamide

[0281] ^{1}H-NMR(300MHz, $CDCl_3$, δppm):1.64-1.75(2H,br d,J=13.2Hz), 1.87 (2H,dt,J=13.2,4.2Hz),2.83(2H,t, J=6.5Hz),2.85-2.97(2H,m), 2.91(3H,s),3.51(1H,t,J=6.5Hz),3.53(1H,t,J=6.5Hz),3.79(3H,s) ,3.83(2H,s),3.84-3.95(2H, br d,J=13.5Hz),4.48(1H,t),6.75-6.81(3H,m),7.07(1H,t,J=7.4Hz),7.14(1H,dd,J=7.4,1.7Hz),7.18-7.30(2H,m).

Example 91

N-(4-Dimethylamino-2-methoxyphenethyl)-1-methanesulfonylspiro[indoline-3,4'-piperidine]-1'-carboxamide

[0282] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.65-1.78(2H,m),2.76(2H,t,J=6.4Hz),2.91(3H,s),2.93(6H,s),2.80-3.00(2H, m),3.42(1H,t,J=6.4Hz), 3.44(1H,t,J=6.4Hz),3.83(5H,s),3.85-3.97(2H,m),4.86-4.95(1H,m),6.27(1H,d,J=2.3Hz),6.31 (1H,dd,J=8.4,2.3Hz),6.95-7.20(4H,m),7.20-7.30(2H,m),7.39(1H,d,J=6.0Hz).

Example 92

N-[(S)-1-Benzyloxycarbonyl-2-(3-indolyl)ethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide

[0283] ^{1}H-NMR(300MHz,$CDCl_3$, δppm):1.71 (2H,br d,J=14.3Hz), 1.91-2.12 (2H,m), 2.82-3.08(2H,m), 3.30 (1H,dd, J=14.4,5.0Hz), 3.38 (1H,dd,J=14.4,5.0Hz), 3.63(2H,s), 3.85(2H,br d,J=14.3Hz), 4.91 (1H,dt,J=8.0,5.0Hz), 5.01(1H,d, J=8.0Hz), 5.14(1H,d,J=11.9Hz), 5.22(1H,d,J=11.9Hz), 6.34(1H,br s), 6.65(1H,s), 7.09(1H,t, J=6.9Hz),7.12-7.40(11H, m),7.55(1H,d,J=8.9Hz),7,98(1H,br s).

Example 93

N-[(R)-1-Benzyloxycarbonyl-2-(3-indolyl)ethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide

[0284] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.71(2H,br d,J=14.3Hz),1.91-2.12 (2H,m),2.82-3.08(2H,m),3.30(1H,dd, J=14.4,5.0Hz),3.38(1H,dd, J=14.4,5.0Hz),3.63(2H,s),3.85(2H,br d,J=14.3Hz), 4.91(1H,dt, J=8.0,5.0Hz),5.01(1H,d, J=8.0Hz),5.14(1H,d,J=11.9Hz),5.22 (1H,d,J=11.9Hz),6.34(1H,br s),6.65(1H,s),7.09(1H,t,J=6.9 Hz),7.12-7.40(11H,m),

7.55(1H,d,J=8.9Hz),7,98(1H,br s).

Example 94

N-[(S)-1-Benzyloxycarbonyl-2-cyclohexylethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide

[0285] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):0.82-1.00(2H,m),1.05-1.41(5H,m), 1.46-1.81(6H,m),1.82(2H,br d,J=12.1Hz),2.05-2.10(2H,m), 3.05-3.22(2H,m),3.66(2H,s),4.03(2H,br t,J=12.1Hz),4.60 (1H, dt,J=8.3,5.6Hz),4.93(1H,d, J=8.3Hz),5.11(1H,d,J=12.4Hz), 5.24(1H,d,J=12.4Hz),6.70(1H,br s),7.12-7.42(9H,m).

Example 95

3,4-Dihydro-N-(3-methoxyphenethyl)-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide

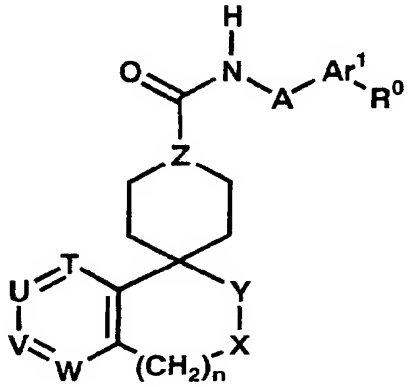
[0286] ^{1}H-NMR(300MHz,$CDCl_3$,δppm):1.75-1.85(2H,m),2.02-2.16(2H,m), 2.83(2H,t,J=6.8Hz),3.02-3.15(2H,m), 3.52(1H,t,J=6.8Hz),3.54 (1H,t,J=6.8Hz),3.66(2H,s),3.80(3H,s),3.85-3.98(2H,m),4.47-4.56(1H,m),6.52(1H,s),6.72-6.82(3H,m),7.15-7.32(5H,m).

Industrial Applicability

[0287] Compounds of the present invention have NPY antagonistic actions, therefore they are useful as agents for the treatment of various diseases related to NPY, for example, cardiovascular disorders such as hypertension, nephropathy, heart disease, vasospasm, arteriosclerosis, etc., central nervous system disorders such as bulimia, depression, anxiety, seizure, epilepsy, dementia, pain, alcoholism, drug withdrawal, circadian rhythm disorders, schizophrenia, etc., metabolic diseases such as obesity, diabetes, hormone abnormality, hypercholesterolemia, hyperlipidemia, etc., sexual and reproductive dysfunctions, gastro-intestinal disorders such as gastro-intestinal motility disorder, respiratory disorders, inflammatory diseases or glaucoma.

Claims

1. A compound of the formula (I):



(I)

(wherein

A is a straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of oxo, amino, lower alkylamino, di-lower alkylamino, hydroxy, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl and -R^a, and is optionally intervened by oxygen or nitrogen atom;

Ar^1 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cyclo-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl,

lower alkoxycarbonyl and -Q-Ar^2;
Ar^2 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, hydroxy, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkanoyl and aryl;
n is 0 or 1;
Q is a single bond or carbonyl;
R^a is lower alkyl which is optionally substituted by a substituent selected from the group consisting of amino, lower alkylamino, di-lower alkylamino and hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine;
R^0 is hydrogen, or lower alkylene attached to an arbitrary, bondable position of A;
R^1, R^2 and R^5 are independently hydrogen, lower alkyl, aralkyl or aryl;
R^3 and R^4 are independently hydrogen, hydroxy, lower alkyl, aralkyl or aryl;
T, U, V and W are independently methine or nitrogen atom, said methine being optionally substituted by a substituent selected from the group consisting of halogen, lower alkyl, hydroxy and lower alkoxy, and at least two of T, U, V and W are said methine group;
X is -$N(SO_2R^1)$-, -$N(COR^2)$- or -CO-;
Y is -$C(R^3)(R^4)$-, -O- or -$N(R^5)$-;
Z is methine or nitrogen atom),

or a salt or ester thereof.

2. The compound as claimed in Claim 1, wherein X is -$N(SO_2R^1)$- or -$N(COR^2)$-, n is 0, and Y is -$C(R^3)(R^4)$-; or X is -CO-, and Y is -O- or -$N(R^5)$-.

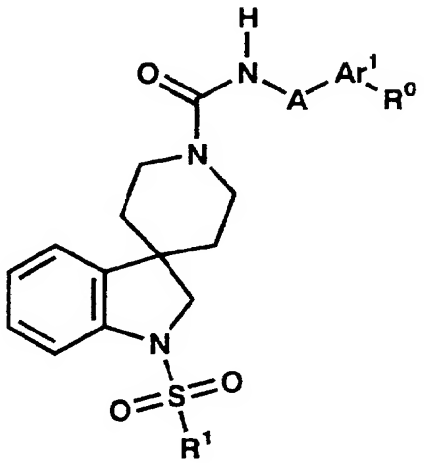
3. The compound as claimed in Claim 1, wherein T, U, V and W are independently methine which is optionally substituted by a substituent selected from the group consisting of halogen, lower alkyl, hydroxy and lower alkoxy.

4. The compound as claimed in Claim 1, wherein one of T, U, V and W is nitrogen atom.

5. The compound as claimed in Claim 1, wherein X is-CO-, and Y is -O- or -NH-.

6. The compound as claimed in Claim 1, wherein X is -CO-, and Y is -O-.

7. The compound of the formula (I-a) as claimed in Claim 1:



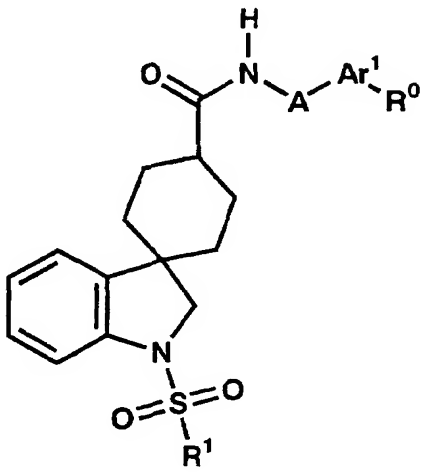
(I-a)

wherein

A is a straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of oxo, amino, lower alkylamino, di-lower alkylamino, hydroxy, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl and -R^a, and is optionally intervened by oxygen or ni-

trogen atom;
Ar^1 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cyclo-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl, lower alkoxycarbonyl and -Q-Ar^2;
Ar^2 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, hydroxy, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkanoyl and aryl;
Q is a single bond or carbonyl;
R^a is lower alkyl which is optionally substituted by a substituent selected from the group consisting of amino, lower alkylamino, di-lower alkylamino and hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine;
R^0 is hydrogen, or lower alkylene attached to an arbitrary, bondable position of A;
R^1 is hydrogen, lower alkyl, aralkyl or aryl.

8. The compound of the formula (I-b) as claimed in Claim 1:

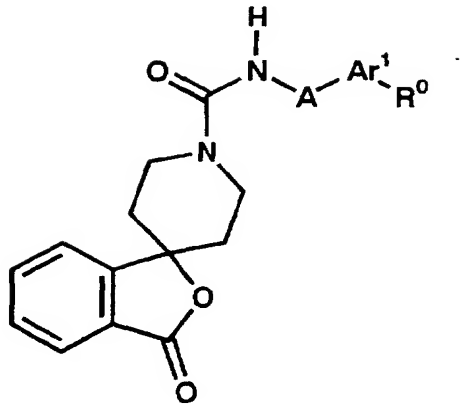


(I-b)

wherein

A is a straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of oxo, amino, lower alkylamino, di-lower alkylamino, hydroxy, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl and -R^a, and is optionally intervened by oxygen or nitrogen atom;
Ar^1 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cycle-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl, lower alkoxycarbonyl and -Q-Ar^2;
Ar^2 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, hydroxy, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkanoyl and aryl;
Q is a single bond or carbonyl;
R^a is lower alkyl which is optionally substituted by a substituent selected from the group consisting of amino, lower alkylamino, di-lower alkylamino and hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine;
R^0 is hydrogen, or lower alkylene attached to an arbitrary, bondable position of A;
R^1 is hydrogen, lower alkyl, aralkyl or aryl.

9. The compound of the formula (I-c) as claimed in Claim 1:

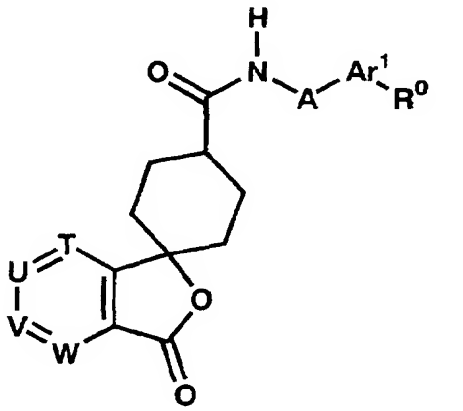


(I-c)

wherein

A is a straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of oxo, amino, lower alkylamino, di-lower alkylamino, hydroxy, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl and -R^a, and is optionally intervened by oxygen or nitrogen atom;
Ar^1 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cyclo-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl, lower alkoxycarbonyl and -Q-Ar^2;
Ar^2 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, hydroxy, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkanoyl and aryl;
Q is a single bond or carbonyl;
R^a is lower alkyl which is optionally substituted by a substituent selected from the group consisting of amino, lower alkylamino, di-lower alkylamino and hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine;
R^0 is hydrogen, or lower alkylene attached to an arbitrary, bondable position of A.

10. The compound of the formula (I-d) as claimed in Claim 1:



(I-d)

wherein

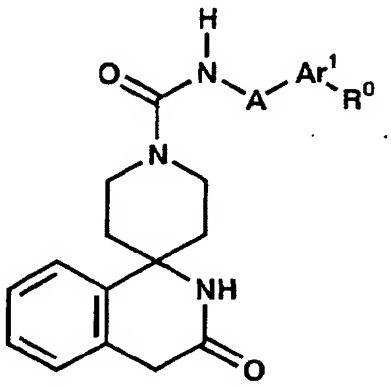
A is a straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of oxo, amino, lower alkylamino, di-lower alkylamino, hydroxy, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl and -R^a, and is optionally intervened by oxygen or ni-

trogen atom;
Ar^1 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cyclo-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl, lower alkoxycarbonyl and -Q-Ar^2;
Ar^2 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, hydroxy, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkanoyl and aryl;
Q is a single bond or carbonyl;
R^a is lower alkyl which is optionally substituted by a substituent selected from the group consisting of amino, lower alkylamino, di-lower alkylamino and hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine;
R^0 is hydrogen, or lower alkylene attached to an arbitrary, bondable position of A;
T, U, V and W are independently methine or nitrogen atom, said methine being optionally substituted by a substituent selected from the group consisting of halogen, lower alkyl, hydroxy and lower alkoxy, and at least two of T, U, V and W are said methine group.

11. The compound as claimed in Claim 10, wherein all of T, U, V and W are unsubstituted methine.

12. The compound as claimed in Claim 10, wherein one of T, U, V and W is nitrogen atom.

13. The compound of the formula (I-e) as claimed in Claim 1:



(I-e)

wherein

A is a straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of oxo, amino, lower alkylamino, di-lower alkylamino, hydroxy, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl and -R^a, and is optionally intervened by oxygen or nitrogen atom;
Ar^1 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cyclo-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl, lower alkoxycarbonyl and -Q-Ar^2;
Ar^2 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, hydroxy, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkanoyl and aryl;
Q is a single bond or carbonyl;
R^a is lower alkyl which is optionally substituted by a substituent selected from the group consisting of amino, lower alkylamino, di-lower alkylamino and hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine;
R^0 is hydrogen, or lower alkylene attached to an arbitrary, bondable position of A.

14. The compound as claimed in any of Claims 1, 7, 8, 9, 10, 11, 12 and 13, wherein aryl as Ar^1 is phenyl.

15. The compound as claimed in any of Claims 1, 7, 8, 9, 10, 11, 12 and 13, wherein Ar^1 is heteroaryl which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cycle-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl, lower alkoxycarbonyl and -Q-Ar^2.

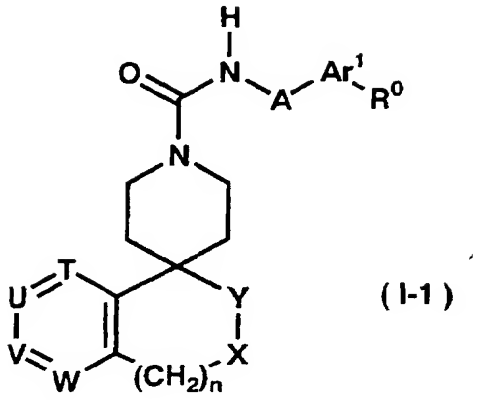
16. The compound as claimed in Claim 1, selected from the group consisting of:

trans-3'-oxo-N-(trans-4-phenylcyclohexyl)spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-N-[(3S)-1-(2-fluorophenyl)-3-pyrrolidinyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-N-[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-N-[(3S)-1-(4-fluorophenyl)-3-pyrrolidinyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-N-[1-(2-fluorophenyl)-4-piperidyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-N-[1-(3-fluorophenyl)-4-piperidyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-N-[1-(4-fluorophenyl)-4-piperidyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-3'-oxo-N-(1,2,3,4-tetrahydro-2-naphthyl)spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-N-[1-(3-fluorophenyl)-4-piperidyl]-3-oxospiro[4-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide
trans-N-[1-(3-fluorophenyl)-4-piperidyl]-3-oxospiro[5-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-N-[1-(3-fluorophenyl)-4-piperidyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-N-[1-(3-fluorophenyl)-4-piperidyl]-3-oxospiro[7-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-N-[6-methoxy-1,2,3,4-tetrahydro-2-naphthyl]-3-oxospiro[5-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-3'-oxo-N-[(3S)-5-oxo-1-phenyl-3-pyrrolidinyl]spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-N-[(3S)-1-(2-fluorophenyl)-3-pyrrolidinyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-N-[(3S)-1-(3-fluorophenyl)-3-pyrrolidinyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-3-oxo-N-(trans-4-phenylcyclohexyl)spiro[5-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-3-oxo-N-(trans-4-phenylcyclohexyl)spiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-3-oxo-N-(trans-4-phenylcyclohexyl)spiro[7-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-3-oxo-N-[(3S)-1-phenyl-3-pyrrolidinyl]spiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-3-oxo-N-[(3S)-1-(3-trifluoromethylphenyl)-3-pyrrolidinyl]spiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-3-oxo-N-[(3S)-1-(2-pyridyl)-3-pyrrolidinyl]spiro[5-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-3-oxo-N-[(3S)-1-(3-pyridyl)-3-pyrrolidinyl]spiro[5-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-N-[trans-4-(4-fluorophenyl)cyclohexyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-N-[trans-4-(3-fluorophenyl)cyclohexyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-N-[trans-4-(3-fluorophenyl)cyclohexyl]-3-oxospiro[4-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-N-[trans-4-(3-fluorophenyl)cyclohexyl]-3-oxospiro[7-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-N-[(3S)-1-(3,5-difluorophenyl)-3-pyrrolidinyl-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-N-[1-(3,5-difluorophenyl)-4-piperidyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carbox-

amide,
trans-N-[3-(3-fluorophenyl)-tetrahydropyran-6-yl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-N-[trans-4-(2-fluorophenyl)cyclohexyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-N-[(S)-1-benzyl-2-(benzylamino)ethyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-N-benzhydryl-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-1-methanesulfonyl-N-(1-phenyl-4-piperidyl)spiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-(2-indanyl)-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-[1-(3-fluorophenyl)-4-piperidyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-1-methanesulfonyl-N-[1-(2-pyridyl)-4-piperidyl]spiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-1-methanesulfonyl-N-(1-phenyl-3-piperidyl)spiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-[1-(3,5-difluorophenyl)-3-piperidyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-1-methanesulfonyl-N-[1-(2-pyridyl)-3-piperidyl]spiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-1-methanesulfonyl-N-[(3S)-1-phenyl-3-gyrrolidinyl]spiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-1-methanesulfonyl-N-[(3R)-1-phenyl-3-pyrrolidinyl]spiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-1-methanesulfonyl-N-(2-phenylcyclopropyl)spiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-1-methanesulfonyl-N-[(2-(3-pyridyl)cyclopropyl)spiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-[(S)-1-benzyl-2-(benzylamino)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-[1-benzylcarbamoyl-2-(4-pyridyl)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-[2-(4-fluorophenyl)-1-[(4-pyridylmethyl)carbamoyl]ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide
trans-N-(2-hydroxy-2-phenylethyl)-1-methanesulfonylspiro[indoline-3,1'-cyclohexane)-4'-carboxamide,
trans-N-(benzoylmethyl)-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-[(S)-1-benzyl-2-(N-benzylmethylamino)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-[(S)-1-(N-benzylmethylcarbamoyl-2-phenylethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-[(S)-1-(N-benzylmethylcarbamoyl)-2-(3-pyridyl)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-(4-dimethylaminophenethyl)-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-1-methanesulfonyl-N-[2-(3-quinolyl)ethyl]spiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-[2-(4-dimethylaminophenyl)-2-hydroxyethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-[2-hydroxy-2-(3-quinolyl)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-[2-(3,5-difluorophenyl)-2-hydroxyethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-[(S)-1-benzyl-2-[(3-pyridylmethyl)amino]ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-[(S)-1-benzyl-2-[(2-pyridylmethyl)amino]ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-[(S)-2-anilino-1-benzylethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-[(S)-1-benzyl-2-(isobutylamino)ethyl]-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-1-methanesulfonyl-N-[2-phenyl-1-(methoxycarbonyl)ethyl]spiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
trans-N-(1-hydroxymethyl-2-phenylethyl)-1-methanesulfonylspiro[indoline-3,1'-cyclohexane]-4'-carboxamide,
1-methanesulfonyl-N-(1-phenyl-4-piperidyl)spiro[indoline-3,4'-piperidine]-1'-carboxamide,
3-oxo-N-(1-phenyl-3-piperidyl)spiro[isobenzofuran-1(3H),4'-piperidine]-1'-carboxamide,
3-oxo-N-[(3S)-1-phenyl-3-pyrrolidinyl]spiro[isobenzofuran-1(3H),4'-piperidine]-1'-carboxamide,
N-[1-benzylcarbamoyl-2-cyclohexylethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide,
N-[(S)-1-benzyloxymethyl-2-cyclohexylethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-giperidine]-1'-car-

boxamide,
N-[(S)-1-benzylcarbamoyl-2-phenylethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide,
N-[(S)-1-benzyl-2-(benzylamino)ethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide,
N-(2-indanyl)-1-methanesulfonylspiro[indoline-3,4'-piperidine]-1'-carboxamide,
1-methanesulfonyl-N-phenethylspiro[indoline-3,4'-piperidine]-1'-carboxamide,
1-methanesulfonyl-N-(3-phenylpropyl)spiro[indoline-3,4'-piperidine]-1'-carboxamide,
1-methanesulfonyl-N-(4-phenylbutyl)spiro[indoline-3,4'-piperidine]-1'-carboxamide,
N-(4-bromophenethyl)-1-methanesulfonylspiro[indoline-3,4'-piperidine)-1'-carboxamide,
N-(3,4-dimethoxyphenethyl)-1-methanesulfonylspiro[indoline-3,4'-piperidine]-1'-carboxamide,
1-methanesulfonyl-N-(3-methoxyphenethyl)spiro[indoline-3,4'-piperidine]-1'-carboxamide,
N-(4-dimethylamino-2-methoxyphenethyl)-1-methanesulfonylspiro(indoline-3,4'-piperidine]-1'-carboxamide,
N-[(S)-1-benzyloxycarbonyl-2-(3-indolyl)ethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide,
N-[(R)-1-benzyloxycarbonyl-2-(3-indolyl)ethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide,
N-[(S)-1-benzyloxycarbonyl-2-cyclohexylethyl]-3,4-dihydro-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide,
3,4-dihydro-N-(3-methoxyphenethyl)-3-oxospiro[isoquinoline-1(2H),4'-piperidine]-1'-carboxamide,
trans-N-[1-(3-trifluoromethylphenyl)-4-piperidyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-N-[trans-2-(3-fluorophenyl)cyclopropyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-N-[trans-2-(4-fluorophenyl)cyclopropyl]-3'-oxosgiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-N-[1-(2-fluorophenyl)-4-piperidyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-3'-oxo-N-[5-oxo-1-(2-fluorophenyl)-3-pyrrolidinyl]spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-3'-oxo-N-[5-oxo-1-(3-fluorophenyl)-3-pyrrolidinyl]spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-3-oxo-N-[5-oxo-1-(3-fluorophenyl)-3-pyrrolidinyl]spiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-N-[trans-4-(3-trifluoromethylphenyl)cyclohexyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide,
trans-3'-oxo-N-[2-oxo-1-phenyl-4-piperidyl]spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-3'-oxo-N-[2-oxo-1-(3-fluorophenyl)-4-piperidyl]spiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-N-[trans-2-(2-fluorophenyl)cyclopropyl]-3'-oxospiro[cyclohexane-1,1'(3'H)-isobenzofuran]-4-carboxamide,
trans-N-[trans-2-(3-fluorophenyl)cyclopropyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide and
trans-N-[trans-2-(4-fluorophenyl)cyclopropyl]-3-oxospiro[6-azaisobenzofuran-1(3H),1'-cyclohexane]-4'-carboxamide.

17. A process for preparing a compound of the formula (I-1):

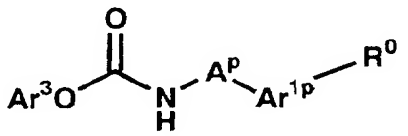


(I-1)

(wherein

A is a straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of oxo, amino, lower alkylamino, di-lower alkylamino, hydroxy, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl and -R^a, and is optionally intervened by oxygen or nitrogen atom;
Ar^1 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cyclo-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl, lower alkoxycarbonyl and -Q-Ar^2;
Ar^2 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, hydroxy, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkanoyl and aryl;
Q is a single bond or carbonyl;
R^a is lower alkyl which is optionally substituted by a substituent selected from the group consisting of amino, lower alkylamino, di-lower alkylamino and hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine;
T, U, V and W are independently methine or nitrogen atom, said methine being optionally substituted by a substituent selected from the group consisting of halogen, lower alkyl, hydroxy and lower alkoxy, and at least two of T, U, V and W are said methine group;
n, R^0, X and Y have the same meaning as defined below), or a salt or ester thereof,

which comprises reacting a compound of the formula (II):



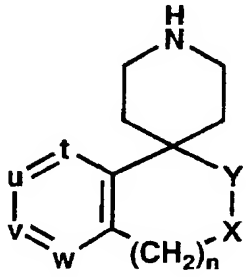
(II)

(wherein

A^p is a straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of di-lower alkylamino, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl, -R^{ap}, optionally protected oxo, optionally protected amino, optionally protected lower alkylamino and optionally protected hydroxy, and is optionally intervened by oxygen or nitrogen atom;
Ar^{1p} is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, lower alkyl, halo-lower alkyl, cyclo-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, di-lower alkylamino, lower alkylthio, lower alkanoyl, lower alkoxycarbonyl, -Q^p-Ar^{2p}, optionally protected oxo, optionally protected hydroxy-lower alkyl, optionally protected lower alkylamino and optionally protected

carboxyl;
Ar^{2p} is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, lower alkoxy, halo-lower alkoxy, di-lower alkylamino, lower alkanoyl, aryl, optionally protected hydroxy-lower alkyl, optionally protected hydroxy and optionally protected lower alkylamino;
Ar^3 is halogen, or phenyl which is optionally substituted by nitro;
Q^p is a single bond or optionally protected carbonyl;
R^{ap} is lower alkyl which is optionally substituted by a substituent selected from the group consisting of di-lower alkylamino, optionally protected amino, optionally protected lower alkylamino, optionally protected hydroxy, and cycle-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine;
R^{0p} is hydrogen, or lower alkylene attached to an arbitrary, bondable position of A^p)

with a compound of the formula (III):

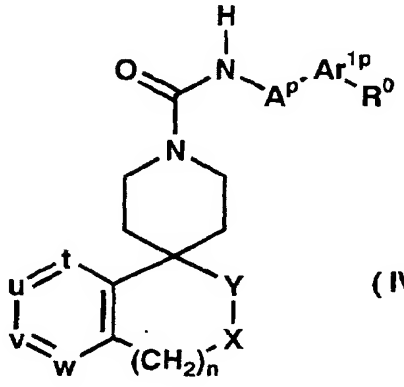


(III)

(wherein

n is 0 or 1;
R^1, R^2 and R^5 are independently hydrogen, lower alkyl, aralkyl or aryl;
R^3 and R^4 are independently hydrogen, lower alkyl, aralkyl, aryl and optionally protected hydroxy;
t, u, v and w are independently methine or nitrogen atom, said methine being optionally substituted by a substituent selected from the group consisting of halogen, lower alkyl, lower alkoxy and optionally protected hydroxy, and at least two of t, u, v and w are said methine group;
X is $-N(SO_2R^1)-$, $-N(COR^2)-$ or $-CO-$;
Y is $-C(R^3)(R^4)-$, $-O-$ or $-N(R^5)-$)

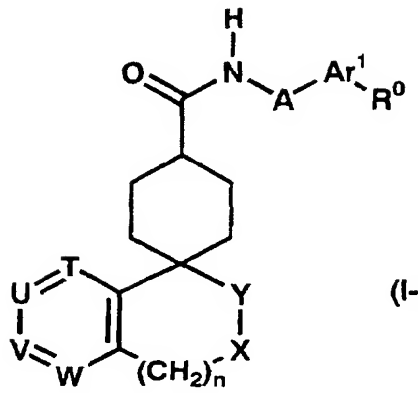
to give a compound of the formula (IV-1):



(IV-1)

(wherein A^p, Ar^{1p}, n, R^0, t, u, v, w, X and Y have the same meaning as defined above), and optionally removing the protecting group(s) from the compound (IV-1).

18. A process for preparing a compound of the formula (I-2):

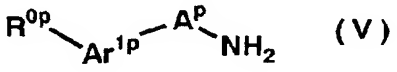


(I-2)

(wherein

A is a straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of oxo, amino, lower alkylamino, di-lower alkylamino, hydroxy, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl and -R^a, and is optionally intervened by oxygen or nitrogen atom;
Ar^1 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cycle-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl, lower alkoxycarbonyl and -Q-Ar^2;
Ar^2 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, hydroxy, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkanoyl and aryl;
Q is a single bond or carbonyl;
R^a is lower alkyl which is optionally substituted by a substituent selected from the group consisting of amino, lower alkylamino, di-lower alkylamino and hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine;
T, U, V and W are independently methine or nitrogen atom, said methine being optionally substituted by a substituent selected from the group consisting of halogen, lower alkyl, hydroxy and lower alkoxy, and at least two of T, U, V and W are said methine group;
n, R^0, X and Y have the same meaning as defined below), or a salt or ester thereof,

which comprises reacting a compound of the formula (V):



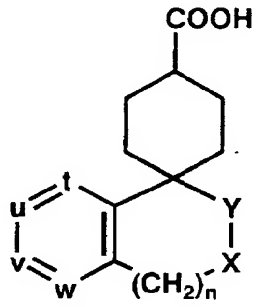
(V)

(wherein

A^p is a straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of di-lower alkylamino, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl, -R^{ap}, optionally protected oxo, optionally protected amino, optionally protected lower alkylamino and optionally protected hydroxy, and is optionally intervened by oxygen or nitrogen atom;
Ar^{1p} is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, lower alkyl, halo-lower alkyl, cyclo-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, di-lower alkylamino, lower alkylthio, lower alkanoyl, lower alkoxycarbonyl, -Q^p-Ar^{2p}, optionally protected oxo, optionally protected hydroxy-lower alkyl, optionally protected lower alkylamino and optionally protected carboxyl;
Ar^{2p} is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, lower alkoxy, halo-lower alkoxy, di-lower alkylamino,

lower alkanoyl, aryl, optionally protected hydroxy-lower alkyl, optionally protected hydroxy and optionally protected lower alkylamino;
Q^p is a single bond or optionally protected carbonyl;
R^{ap} is lower alkyl which is optionally substituted by a substituent selected from the group consisting of di-lower alkylamino, optionally protected amino, optionally protected lower alkylamino and optionally protected hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine;
R^{0p} is hydrogen, or lower alkylene attached to an arbitrary, bondable position of A^p)

with a compound of the formula (VI):

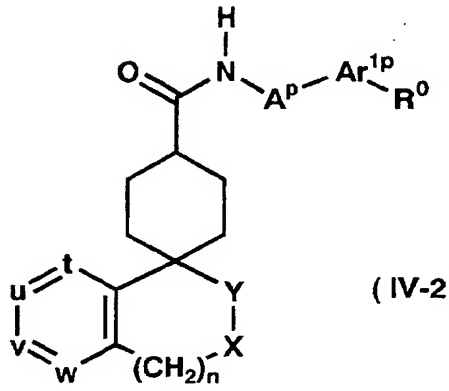


(VI)

(wherein

n is 0 or 1;
R^1, R^2 and R^5 are independently hydrogen, lower alkyl, aralkyl or aryl;
R^3 and R^4 are independentlyhydrogen, lower alkyl, aralkyl, aryl and optionally protected hydroxy;
t, u, v and w are independently methine or nitrogen atom, said methine being optionally substituted by a substituent selected from the group consisting of halogen, lower alkyl, lower alkoxy and optionally protected hydroxy, and at least two of t, u, v and w are said methine group;
X is $-N(SO_2R^1)-$, $-N(COR^2)-$ or $-CO-$;
Y is $-C(R^3)(R^4)-$, $-O-$ or $-N(R^5)-$)

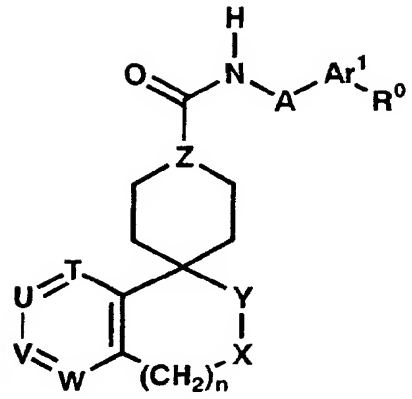
to give a compound of the formula (IV-2):



(IV-2)

(wherein A^p, Ar^{1p}, n, R^0, t, u, v, w, X and Y have the same meaning as defined above), and optionally removing the protecting group(s) from the compound (IV-2).

19. A neuropeptide Y receptor antagonist agent comprising a compound of the formula (I):

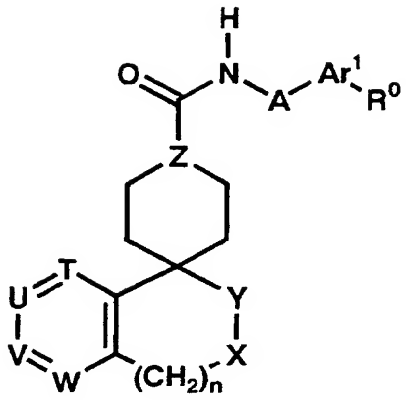


(I)

(wherein

A is a straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of oxo, amino, lower alkylamino, di-lower alkylamino, hydroxy, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl and -R^a, and is optionally intervened by oxygen or nitrogen atom;
Ar^1 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cyclo-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl, lower alkoxycarbonyl and -Q-Ar^2;
Ar^2 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, hydroxy, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkanoyl and aryl;
n is 0 or 1;
Q is a single bond or carbonyl;
R^a is lower alkyl which is optionally substituted by a substituent selected from the group consisting of amino, lower alkylamino, di-lower alkylamino and hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine;
R^0 is hydrogen, or lower alkylene attached to an arbitrary, bondable position of A;
R^1, R^2 and R^5 are independently hydrogen, lower alkyl, aralkyl or aryl;
R^3 and R^4 are independently hydrogen, hydroxy, lower alkyl, aralkyl or aryl;
T, U, V and W are independently methine or nitrogen atom, said methine being optionally substituted by a substituent selected from the group consisting of halogen, lower alkyl, hydroxy and lower alkoxy, and at least two of T, U, V and W are said methine group;
X is -$N(SO_2R^1)$-, -$N(COR^2)$- or -CO-;
Y is -$C(R^3)(R^4)$-, -O- or -$N(R^5)$-;
Z is methine or nitrogen atom), or a salt or ester thereof as an active ingredient.

20. An agent for the treatment of bulimia, obesity or diabetes, comprising a compound of the formula (I):



(I)

(wherein

A is a straight-chain hydrocarbon having 1 to 6 carbon atoms, which is optionally substituted by a substituent selected from the group consisting of oxo, amino, lower alkylamino, di-lower alkylamino, hydroxy, lower alkoxy, lower alkoxycarbonyl, lower alkylene, aryl, heteroaryl and -R^a, and is optionally intervened by oxygen or nitrogen atom;
Ar^1 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, nitro, oxo, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, cyclo-lower alkyl, lower alkenyl, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkylthio, carboxyl, lower alkanoyl, lower alkoxycarbonyl and -Q-Ar^2;
Ar^2 is aryl or heteroaryl, any of which is optionally substituted by a substituent selected from the group consisting of halogen, cyano, lower alkyl, halo-lower alkyl, hydroxy-lower alkyl, hydroxy, lower alkoxy, halo-lower alkoxy, lower alkylamino, di-lower alkylamino, lower alkanoyl and aryl;
n is 0 or 1;
Q is a single bond or carbonyl;
R^a is lower alkyl which is optionally substituted by a substituent selected from the group consisting of amino, lower alkylamino, di-lower alkylamino and hydroxy, and cyclo-lower alkyl, aryl and heteroaryl, the last three groups being optionally substituted by fluorine;
R^0 is hydrogen, or lower alkylene attached to an arbitrary, bondable position of A;
R^1, R^2 and R^5 are independently hydrogen, lower alkyl, aralkyl or aryl;
R^3 and R^4 are independently hydrogen, hydroxy, lower alkyl, aralkyl or aryl;
T, U, V and W are independently methine or nitrogen atom, said methine being optionally substituted by a substituent selected from the group consisting of halogen, lower alkyl, hydroxy and lower alkoxy, and at least two of T, U, V and W are said methine group;
X is -$N(SO_2R^1)$-, -$N(COR^2)$- or -CO-;
Y is -$C(R^3)(R^4)$-, -O- or -$N(R^5)$-;
Z is methine or nitrogen atom), or a salt or ester thereof as an active ingredient.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP02/07922

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl[7] C07D209/96, 307/94, 401/12, 401/14, 403/12, 405/12, 471/10, 491/107, A61K31/365, 4025, 403, 4355, 4439, 444, A61K31/4525, 454, 4545, 4709, 4747, 506, A61P1/00, 3/04,
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
Int.Cl[7] C07D209/96, 307/94, 401/12, 401/14, 403/12, 405/12, 471/10, 491/107, A61K31/365, 4025, 403, 4355, 4439, 444, A61K31/4525, 454, 4545, 4709, 4747, 506, A61P1/00, 3/04,

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
CAPLUS, REGISTRY(STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 01/14328 A2 (Merck & Co., Inc.), 01 March, 2001 (01.03.01), & AU 2000069093 A & US 6353099 B1	1-3,7,8,14, 17-20 4-6,9-13,15, 16
X Y	US 5869489 A (Merck & Co., Inc.), 09 February, 1999 (09.02.99), (Family: none)	1-3,7,8,14, 17-20 4-6,9-13,15, 16
X Y	GB 2311523 A (Merck & Co., Inc.), 01 October, 1997 (01.10.97), (Family: none)	1-3,7,8,14, 17-20 4-6,9-13,15, 16
X	Bioorg.Med.Chem.Lett., (1998), 8(16), p.2259-62	1-3,7,8,14, 17-20

[x] Further documents are listed in the continuation of Box C. [ ] See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier document but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
24 October, 2002 (24.10.02)	05 November, 2002 (05.11.02)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.

Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP02/07922

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00/27845 A1 (Banyu Pharm. Co., Ltd.), 18 May, 2000 (18.05.00), & AU 200014732 A & US 6191160 B1 & EP 1129089 A1 & US 6313298 B1 & JP 2002-529464 A	1-20
Y	WO 01/14376 A1 (Banyu Pharm. Co., Ltd.), 01 March, 2001 (01.03.01), & AU 200064762 A & US 6326375 B1 & US 6335345 B1 & JP 2002-30086 A & BR 200013423 A & NO 200200814 A & EP 1204663 A1 & US 6388077 B1 & KR 2002021410 A	1-20
P,A	WO 02/48152 A2 (Neurogen Corp.), 20 June, 2002 (20.06.02), (Family: none)	1-20
P,A	WO 02/22563 A1 (Toray Ind., Inc.), 21 March, 2002 (21.03.02), & AU 2001086242 A	1-20

Form PCT/ISA/210 (continuation of second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP02/07922

Continuation of A. CLASSIFICATION OF SUBJECT MATTER
(International Patent Classification (IPC))

Int.Cl[7] 3/06, 3/10, 5/00, 9/00, 9/02, 9/10, 9/12, 11/00, 13/12, A61P15/00, 25/04, 25/22, 25/24, 25/28, 25/30, 25/32, 27/06, 29/00, 43/00

(According to International Patent Classification (IPC) or to both national classification and IPC)

Continuation of B. FIELDS SEARCHED
Minimum Documentation Searched(International Patent Classification (IPC))

Int.Cl[7] 3/06, 3/10, 5/00, 9/00, 9/02, 9/10, 9/12, 11/00, 13/12, A61P15/00, 25/04, 25/22, 25/24, 25/28, 25/30, 25/32, 27/06, 29/00, 43/00

Minimum documentation searched (classification system followed by classification symbols)

Form PCT/ISA/210 (extra sheet) (July 1998)